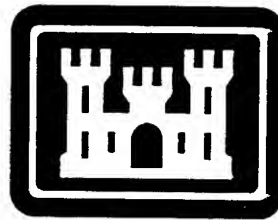


# UMCS FEASIBILITY STUDY

ATTACHMENT SECTIONS 8.1 & 8.2 A THRU D

FOR

Fort George G. Meade



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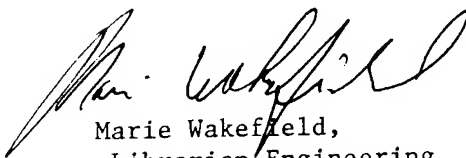


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## Acronym Table

A/C	Air Conditioning
AHU	Air Handling Unit
BHP	Boiler Horse Power
BTU	British Thermal Unit
CHW	Chilled Water
DHW	Domestic Hot Water
DoD	Department of Defense
DPW	Department of Public Works
DX	Direct Expansion
ECIP	Energy Conservation Investment Program
ECO	Energy Conservation Opportunity
EEAP	Energy Engineering Analysis Program
EMCS	Energy Monitoring and Control System
EMS	Energy Management System
ESA	Energy Savings Analysis
gal	Gallon
HVAC	Heating, Ventilating, and Air Conditioning
HW	Hot Water
kW	Kilowatt
kWh	Kilowatt Hour
LCC	Life Cycle Cost
mcf	Thousand Cubic Feet
mmBTU	Million BTU
OA	Outside Air
SIOH	Savings, Inspection and Overhead
SIR	Savings to Investment Ratio
UMCS	Monitoring and Control System
VAV	Variable Air Volume

## **ATTACHMENT SECTION 8.1**

### **SCOPE OF SERVICES**

CESAM-EN-DM

17 April 1995  
rev'd: 12 July 1995

UMCS FEASIBILITY STUDY  
FORT MEADE, MARYLAND

GENERAL SCOPE OF WORK  
FOR A  
LIMITED ENERGY STUDY

Performed as part of the  
ENERGY ENGINEERING ANALYSIS PROGRAM (EEAP)



SCOPE OF WORK  
FOR A  
LIMITED ENERGY STUDY

UMCS FEASIBILITY STUDY, FORT MEADE, MD

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ANNEXES

- A - DETAILED SCOPE OF WORK
- B - BUILDINGS INCLUDED IN SURVEY
- C - EXECUTIVE SUMMARY GUIDELINE
- D - REQUIRED DD FORM 1391 DATA

1. BRIEF DESCRIPTION OF WORK: The Architect-Engineer (AE) shall:

1.1 Review for general information the available design, construction, and operation data for the existing Energy Monitoring and Control System (EMCS).

1.2 Perform a limited site survey of selected buildings or facilities to verify construction features, electrical and mechanical equipment, occupancy, and mode of operation for energy analysis.

1.3 Evaluate the technical and economic feasibility of replacing the existing EMCS with a new, distributed-process monitoring and control system (UMCS). The new UMCS would use personal computer (PC) based central operator stations and remote control units as appropriate in the buildings currently served by the existing EMCS.

1.4 Evaluate UMCS application programs (software) for all buildings or facilities using data from similar buildings to determine their energy savings potential and economic feasibility for connection to the new UMCS.

1.5 Provide project documentation for recommended ECOs as detailed herein.

1.6 Prepare a comprehensive report to document all work performed, the results and all recommendations.

2. GENERAL

2.1 The existing Honeywell EMCS was originally installed in 1977. A software upgrade was performed five years ago; field hardware improvements were made in 1982. The existing EMCS is a standalone (monolithic) system. Over the years, mechanical and electrical equipment has become disconnected, losing monitor and control points. Purpose of this study is to evaluate replacement of the existing EMCS with a new, PC-based UMCS, and to evaluate adding new buildings to the UMCS. All buildings shall be prioritized according to simple payback and need.

2.2 The information and analysis outlined herein are considered to be minimum requirements for adequate performance of this study.

2.3 For the purposes of this scope of work, an Energy Conservation Opportunity (ECO) is defined as the application of one or more UMCS energy conservation programs (applications

software) within a particular building or facility. A project is defined as the connection of one or more buildings/facilities to the UMCS or replacement of the existing EMCS.

2.4 The AE shall ensure that all ECO's which shall reduce the energy consumption or cost of operation of the installation have been considered and documented per the detailed scope of work. The ECO's are limited to the standard UEMCS applications listed in TM 5-815-2. A list of UMCS applications programs to be used when evaluating specific buildings or facilities is included in TM 5-815-2, "Energy Monitoring and Control Systems (EMCS)". Some of the applications programs listed in TM 5-815-2 may not be applicable to the specific building or facility being evaluated; in such cases, a statement to that effect is all that is required.

2.5 The study shall include the energy consuming buildings or facilities listed in Annex B. Field work and calculations may be reduced somewhat by building repetition.

2.6 Cost estimates for all UMCS hardware, software, data transmission media (DTM), testing and other required services shall be made using CEHND-SP-90-244-ED-ME, "Energy Monitoring and Control Systems (EMCS), Large and Medium Configurations, Cost Estimating Guidelines", modified to reflect current market conditions. Quotes from the manufacturer of the existing system will be acceptable.

2.7 The "Energy Conservation Investment Program (ECIP) Guidance", described in letter from DAIM-FDF-U, dated 10 Jan 1994 (including current updates) establishes criteria for ECIP projects and shall be used for performing the economic analyses of all ECOs and projects. The program, Life Cycle Cost In Design (LCCID), has been developed for performing life cycle cost calculations in accordance with ECIP guidelines and is referenced in the ECIP Guidance. If any program other than LCCID is proposed for life cycle cost analysis, it must use the mode of calculation specified in the ECIP Guidance. The output must be in the format of the ECIP LCCA summary sheet, and it must be submitted for approval to the Contracting Officer.

2.8 Computer modeling will be used to determine the energy savings of ECOs for typical buildings. The typical buildings are noted in Annex B. The results of these calculations may be applied to buildings which are similar to the typical buildings. This will be done by extrapolating on the basis of floor area. To be considered similar, a building must be essentially identical to the typical building in size, floor plan, mechanical equipment, type of construction, and

occupancy. If a building is identical to a typical building in all respects except the occupancy (e.g. a barracks converted into offices) the building should not be considered similar. In some cases, differences in physical orientation may not allow buildings to be considered similar; it is anticipated that in most cases, physical orientation will not be a significant factor. The requirement to use computer modeling applies only to heated and air-conditioned or air-conditioned-only buildings which exceed 8,000 square feet or heated-only buildings in excess of 20,000 square feet. For buildings that are not covered by this requirement the AE may use spreadsheet or manual calculations based on the standardized energy savings calculations presented in Appendix C (CR82-030) of Naval Facilities Engineering Command document UG-0010, "User's Guide for Single Building Controllers". Modeling will be done using a professionally recognized and proven computer program or programs that integrate architectural features with air-conditioning, heating, lighting and other energy-producing or consuming systems. These programs will be capable of simulating the features, systems, and thermal loads of the building under study. The program will use established weather data files and may perform calculations on a true hour-by-hour basis or may condense the weather files and the number of calculations into several "typical" days per month. The Detailed Scope of Work, Annex A, lists programs that are acceptable to the Contracting Officer. If the AE desires to use a different program, it must be submitted for approval with a sample run, an explanation of all input and output data, and a summary of program methodology and energy evaluation capabilities. The AE shall model 19 different typical occupancy/HVAC combinations for the purpose of developing extrapolation constants. Energy savings will be extrapolated to similar systems using methods developed by the AE which use the equations from CR 82.030 and energy constants from modeling of typical systems. The AE shall calculate building loss coefficients of 60 typical buildings and shall extrapolate the building loss coefficients to the remaining buildings based on occupancy type and floor area.

2.9 Energy conservation opportunities determined to be technically and economically feasible shall be developed into projects acceptable to installation personnel. This may involve combining similar ECOs into larger packages which will qualify for ECIP or FEMP funding, and determining in coordination with installation personnel the appropriate packaging and implementation approach for all feasible ECOs.

2.9.1 Projects which qualify for ECIP funding shall be identified, separately listed, and prioritized by the Savings to Investment Ratio (SIR).

2.9.2 All feasible non-ECIP projects shall be ranked in order of highest to lowest SIR.

2.9.3 At some installations Energy Conservation and Management (ECAM) funding will be used instead of ECIP funding. The criteria for each program is the same. The Director of Public Works will indicate which program is used at this installation. This Scope of Work mentions only ECIP, however, ECAM is also meant.

2.10 Metric Reporting Requirements: In this study, the analyses of the ECOs may be performed using English or Metric units as long as they are consistent throughout the report. The final results of energy savings for individual recommended projects and for the overall study will be reported in units of MegaBTU per year and in MegaWattHours per year. Paragraph 7.6.2 details requirements for the contents of the final submittal.

### 3. PROJECT MANAGEMENT

3.1 Project Managers. The AE shall designate a project manager to serve as a point of contact and liaison for work required under this contract. Upon award of this contract, the individual shall be immediately designated in writing. The AE's designated project manager shall be approved by the Contracting Officer prior to commencement of work. This designated individual shall be responsible for coordination of work required under this contract. The Contracting Officer will designate a project manager to serve as the Government's point of contact and liaison for all work required under this contract. This individual will be the Government's representative.

3.2 Installation Assistance. The Commanding Officer or authorized representative at the installation will designate an individual to assist the AE in obtaining information and establishing contacts necessary to accomplish the work required under this contract. This individual will be the installation representative.

3.3 Public Disclosures. The AE shall make no public announcements or disclosures relative to information contained or developed in this contract, except as authorized by the Contracting Officer.

3.4 Meetings. Meetings will be scheduled whenever requested by the AE or the Contracting Officer for the resolution of questions or problems encountered in the performance of the work. The AE's project manager and the

Government's representative shall be required to attend and participate in all meetings pertinent to the work required under this contract as directed by the Contracting Officer. These meetings, if necessary, will be in addition to the presentation and review conferences.

3.5 Site Visits, Inspections, and Investigations. The AE shall visit and inspect/investigate the site of the project as necessary and required during the preparation and accomplishment of the work.

### 3.6 Records

3.6.1 The AE shall provide a record of all significant conferences, meetings, discussions, verbal directions, telephone conversations, etc., with Government representative(s) relative to this contract in which the AE and/or designated representative(s) thereof participated. These records shall be dated and shall identify the contract number, and modification number if applicable, participating personnel, subject discussed and conclusions reached. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the records.

3.6.2 The AE shall provide a record of requests for and/or receipt of Government-furnished material, data, documents, information, etc., which if not furnished in a timely manner, would significantly impair the normal progression of the work under this contract. The records shall be dated and shall identify the contract number and modification number, if applicable. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the record of request or receipt of material.

3.7 Interviews. The AE and the Government's representative shall conduct entry and exit interviews with the Director of Public Works before starting work at the installation and after completion of the field work. The Government's representative shall schedule the interviews at least one week in advance.

3.7.1 Entry. The entry interview shall describe the intended procedures for the survey and shall be conducted prior to commencing work at the facility. As a minimum, the interview shall cover the following points:

- a. Schedules.
- b. Names of energy analysts who will be conducting the site survey.

c. Proposed working hours.

d. Support requirements from the Director of Public Works.

3.7.2 Exit. The exit interview shall be held when the field work is essentially complete; it shall briefly describe the items surveyed and probable areas of energy conservation. The interview shall also solicit input and advice from the Director of Public Works.

4. SERVICES AND MATERIALS. All services, materials (except those specifically enumerated to be furnished by the Government), labor, supervision, and travel necessary to perform the work and render the data required under this contract are included in the lump sum price of the contract.

5. PROJECT DOCUMENTATION. All energy conservation opportunities which the AE has considered shall be included in one of the following categories and presented in the report as such:

5.1 ECIP Projects. To qualify as an ECIP project, an ECO, or several ECOs which have been combined, must have a construction cost estimate greater than \$300,000, a Savings to Investment Ratio (SIR) greater than 1.25 and a simple payback period of less than ten years. The overall project and each discrete part of the project shall have an SIR greater than 1.25. All projects meeting the above criteria shall be arranged as specified in paragraph 2.7.1 and shall be provided with programming documentation. Programming documentation shall consist of a DD Form 1391 and life cycle cost analysis (LCCA) summary sheet(s) (with necessary backup data to verify the numbers presented). A life cycle cost analysis summary sheet shall be developed for each ECO and for the overall project when more than one ECO are combined. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs.

5.2 Non-ECIP Projects. Projects which do not meet ECIP criteria with regard to cost estimate, but which have an SIR greater than 1.25 shall be documented. Projects or ECOs in this category shall be arranged as specified in paragraph 2.7.2 and shall be provided with the following documentation: the life cycle cost analysis (LCCA) summary sheet completely filled out, a description of the work to be accomplished, backup data for the LCCA (energy savings calculations and cost estimate), and the simple payback period. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs. In addition these projects shall have the necessary documentation prepared, as required by the Government's representative, for

one of the following categories:

a. Federal Energy Management Program (FEMP) Projects. A FEMP (or O&M Energy) project is one that results in needed maintenance or repair to an existing facility, or replaces a failed or failing existing facility, and also results in energy savings. The criteria are similar to the criteria for ECIP projects, ie,  $SIR \geq 1.25$ , and simple payback period of less than ten years. Projects with a construction cost estimate up to \$300,000 shall be documented as outlined in par 5.2 above; projects over \$300,000 shall be documented on 1391s. In the FEMP program, a system may be defined as "failed or failing" if it is inefficient or technically obsolete. However, if this strategy is used to justify a proposed project, the equipment to be replaced must have been in use for at least three years.

b. Low Cost/No Cost Projects. These are projects which the Director of Public Works (DPW) can perform using his resources. Documentation shall be as required by the DPW.

5.3 Nonfeasible ECOs. All ECOs which the AE has considered but which are not feasible, shall be documented in the report with reasons and justifications showing why they were rejected.

6. DETAILED SCOPE OF WORK. The Detailed Scope of Work is contained in Annex A.

7. WORK TO BE ACCOMPLISHED.

7.1 Review Data for Existing EMCS. The AE shall review for general information the construction drawings and specifications and the manufacturer's drawings and operations and maintenance manuals for the existing EMCS. This review should acquaint the AE with the details of the hardware and software used in the existing system. Much of the information the AE may need to perform his evaluation will be contained in this data.

7.2 Perform a Limited Site Survey. The AE shall determine, based on the information provided by the installation, which buildings are "typical" and which are "similar" as defined in paragraph 2.8. A limited field survey of all buildings listed in the detailed scope of work shall be conducted to verify and/or adjust the list of "typical" and "similar" buildings. A detailed field investigation will then be made of all "typical" buildings using the outline provided in the detailed scope of work. The AE shall document his site survey on forms developed for the survey and submit these completed forms as part of the report. Testing is not required.



7.3 Evaluate Selected ECOs. The AE shall analyze the ECOs identified in paragraphs 1.3 through 1.4. These ECOs shall be analyzed in detail to determine their feasibility. Savings to Investment Ratios (SIRs) shall be determined using current ECIP guidance. The AE shall provide all data and calculations needed to support the recommended ECO. All assumptions and engineering equations shall be clearly stated. Calculations shall be prepared showing how all numbers in the ECO were figured. Calculations shall be an orderly step-by-step progression from the first assumption to the final number. Descriptions of the products, manufacturers catalog cuts, pertinent drawings and sketches, and input/output summary sheets shall also be included. A life cycle cost analysis summary sheet shall be prepared for each ECO and included as part of the supporting data.

7.4 Combine ECOs Into Recommended Projects. During the Interim Review Conference, as outlined in paragraph 7.6.1, the AE will be advised of the DEH's preferred packaging of recommended ECOs into projects for implementation. Some projects may be a combination of several ECOs, and others may contain only one. These projects will be evaluated and arranged as outlined in paragraphs 5.1, 5.2, and 5.3. Energy savings calculations shall take into account the synergistic effects of multiple ECOs within a project and the effects of one project upon another. The results of this effort will be reported in the Pre-Final Submittal per par 7.6.2.

7.5 Provide Programming or Implementation Documentation. For projects or ECOs developed during this study, complete programming or implementation documentation shall be prepared by the AE.

7.5.1 Programming Documentation. For buildings or projects which meet ECIP criteria and which the installation wants to submit as an ECIP criteria, complete programming documentation shall be prepared. Complete programming documentation consists of the DD Form 1391 with supporting data. These forms shall be separate from the narrative report. They shall be bound similarly to the final report in a manner which will facilitate repeated assembly and disassembly. Forms shall also be provided on floppy disk in ASCII format; blank forms will be provided to the AE by the installation on floppy disk.

7.5.1.1 Military Construction Project Data (DD Form 1391). These documents shall be prepared in accordance with AR 415-15 and the supplemental requirements in Annex B. A complete DD Form 1391 shall be prepared for each project. The form shall include a statement that the project results from an EEAP study. Documents shall be complete as required for submission to higher DA headquarters. These programming

documents will require review and signatures by the proper installation personnel. All documents shall be complete except for required signatures. The installation shall batch the forms into the DD 1391 processor.

7.5.1.2 Implementation Documentation. For feasible projects or ECOs which do not meet ECIP criteria, implementation documentation shall be prepared. Each feasible project or ECO shall be individually packaged, fully documented, and included as a separate section in the volume containing the programming documentation. Each project or ECO shall have a complete description of the work to be done, economic justification, sketches, I/O summary sheets, and other backup data included as a section of the report. The documentation required shall be as determined by the Government's representative. Documentation required will be in the categories listed in paragraph 5.2. For low cost/no cost (operational) projects which the Directorate of Public Works can perform, the following information shall be provided:

- a. Brief description of the project;
- b. Brief description of the reasons for the modification;
- c. Specific instructions for performing the modification;
- d. Estimated dollar and energy savings per year; and
- e. Estimated manhours and labor and material costs. Costs shall be calculated for the current calendar year and so marked. Manhours shall be listed by trade.

Separate sheets for each project showing the above information shall be prepared and included in the report.

7.6 Submittals, Presentations and Reviews. The work accomplished shall be fully documented by a comprehensive report. The report shall have a table of contents and shall be indexed. Tabs and dividers shall clearly and distinctly divide sections, subsections, and appendices. All pages shall be numbered. Names of the persons primarily responsible for the project shall be included. The AE shall give a formal presentation of the interim submittal to installation, command, and other Government personnel. Slides or view graphs showing the results of the study to date shall be used during the presentation. During the presentation, the personnel in attendance shall be given ample opportunity to ask questions and discuss any changes deemed necessary to the study. A review conference will be conducted the same day, following the presentation. Each comment presented at the review

conference will be discussed and resolved or action items assigned. The AE shall provide the comments from all reviewers and written notification of the action taken on each comment to all reviewing agencies within three weeks after the review meeting. It is anticipated that the presentation and review conference will require approximately one working day. The presentation and review conference will be at the installation on the date agreeable to the Director of Public Works, the AE and the Government's representative. The Contracting Officer may require a resubmittal of any document(s), if such document(s) are not approved because they are determined by the Contracting Officer to be inadequate for the intended purpose.

7.6.1 Interim Submittal. An interim report shall be submitted for review after the field survey has been completed and an analysis has been performed on all of the ECOs. The report shall indicate the work which has been accomplished to date, illustrate the methods and justifications of the approaches taken and contain a plan of the work remaining to complete the study. I/O summary sheets and calculations showing energy and dollar dollar savings and SIRs of all ECOs/projects shall be included. A sample implementation document (DD Form 1391, sketches, manufacturer's data, I/O summary sheets, outline specifications, life cycle cost analysis summary sheet and supporting data) for one project will be submitted with this report. The simple payback period of all ECOs/projects shall be calculated and shown in the report. The results of the ECO analyses shall be summarized by lists as follows:

a. All ECOs eliminated from consideration shall be grouped into one listing with reasons for their elimination as discussed in par 5.3.

b. All ECOs which were analyzed shall be grouped into two listings, recommended and non-recommended, each arranged in order of descending SIR. These lists may be subdivided by building or area as appropriate for the study. The AE shall submit the Scope of Work and any modifications to the Scope of Work as an appendix to the report. A narrative summary describing the work and results to date shall be a part of this submittal. At the Interim Submittal and Review Conference, the Government's and AE's representatives shall coordinate with the Director of Public Works to provide the AE with direction for packaging or combining ECOs for programming purposes and also indicate the fiscal year for which the programming or implementation documentation shall be prepared. The survey forms completed during this audit shall be submitted with this report. The survey forms only may be submitted in final form with this submittal. They should be clearly marked at the time of submission that they are to be

retained. They shall be bound in a standard three-ring binder which will allow repeated disassembly and reassembly of the material contained within.

7.6.2 Pre-Final Submittal. The AE shall prepare and submit the Pre-Final report when all sections of the report are complete.

7.6.3 Final Submittal. The AE shall prepare and submit the final report when all sections of the report are 100% complete and all comments from the interim submittal have been resolved. The AE shall submit the Scope of Work for the study and any modifications to the Scope of Work as an appendix to the submittal. The report shall contain a narrative summary of conclusions and recommendations, together with all raw and supporting data, methods used, and sources of information. The report shall integrate all aspects of the study. The recommended projects, as determined in accordance with paragraph 5, shall be presented in order of priority by SIR. The lists of ECOs specified in paragraph 7.6.1 shall also be included for continuity. The final report and all appendices shall be bound in standard three-ring binders which will allow repeated disassembly and reassembly. The final report shall be arranged to include:

a. An Executive Summary to give a brief overview of what was accomplished and the results of this study using graphs, tables and charts as much as possible (See Annex B for minimum requirements).

b. The narrative report describing the problem to be studied, the approach to be used, and the results of this study.

c. Documentation for the recommended projects (includes LCCA Summary Sheets).

d. Appendices to include as a minimum:

- 1) Energy cost development and backup data
- 2) Detailed calculations
- 3) Cost estimates
- 4) Computer printouts (where applicable)
- 5) Scope of Work

ANNEX A

ARCHITECT-ENGINEER SERVICES FOR  
ENERGY MONITORING AND CONTROL SYSTEM  
AT  
FORT MEADE, MARYLAND  
DETAILED SCOPE OF WORK

1. GENERAL The AE shall furnish all services, materials, supplies, labor, equipment, investigations, studies, and travel as required in connection with the feasibility study for replacement of an EMCS at Fort Meade, MD. The study generally consists of investigating the economic and technical feasibility of making necessary modifications to connect existing buildings and facilities to a new UMCS, and replacing the existing EMCS with a distributed-process UMCS with sufficient capacity to accommodate future expansion. The buildings and facilities to be included are listed at Annex B of this statement of work.

2. AUTHORIZATION The feasibility study for this project is authorized by memorandum, CEMP-ET, subject: "Energy Engineering Analysis Program (EEAP) - FY95", dated 29 December 1994. The AE shall make reference to this authority in the study.

3. STUDY INSTRUCTIONS If the Design Manuals, Guide Specifications, and/or Project Engineering Instructions do not cover a specific condition in question, the AE shall contact the Contracting Officer before proceeding. If there is a conflict in Engineering Instructions or other reference data, such questions or conflicts should be brought to the attention of the Contracting Officer before proceeding.

4. INSTALLATION REPRESENTATIVE The Installation Representative for this study will be Mr. Richard Styles, Directorate of Public Works, (301) 677-9256.

5. COMPLETION AND PAYMENT SCHEDULE The following schedule shall be used as a guide in approving payments on this contract. The interim report shall be due not later than 180 days after the Authorized Receipt of Order (ARO). The Pre-Final report shall be due not later than 30 days after the interim report review conference. The Final report shall be due not later than 21 days after the Pre-Final review conference.

<u>MILESTONE</u>	<u>% OF CONTRACT AMOUNT AUTHORIZED FOR PAYMENT</u>
Entry Interview	10
Completion of Field Work	25
Receipt of Interim Submittal	75
Completion of Interim Presentation & Review	85
Completion of Pre-Final	95

#### 6. METHOD OF PAYMENT

a. Title I. The AE shall prepare and submit to the US Army Engineer District, Baltimore, MD, partial payment estimates on ENG Form 93. All partial payments shall be based on work completed as of the 15th day of the reporting month and shall be submitted to the office of the Contracting Officer by the 18th day of the month. Copy of the ENG Form 93 should be provided to the Project Manager. Payment under this order, for which property or services are provided in a series of partial executions or deliveries, will be made within 30 days after receipt of an invoice which has been properly executed by the AE.

b. Additional Conferences. Payments for furnishing the services of technically qualified representatives to attend additional conferences, when so requested in writing by the Contracting Officer, will be made at a rate per hour for the discipline involved plus travel expenses computed in accordance with the Joint Travel Regulations in effect at the time travel is performed and actual cost of transportation.

7. SIMULATION PROGRAMS Simulation programs acceptable for use in this study are listed below. Any substitute must be submitted and approved as outlined in the basic statement of work.

- a. Building Loads and System Thermodynamics (BLAST)
- b. DOE 2.1D
- c. Carrier Hourly Analysis Program (HAP)
- d. Trane Air-Conditioning Economics (TRACE)

8. COMPUTER PROGRAM A computer program entitled "Life Cycle Costing in Design (LCCID)" is available from the BLAST Support Office in Urbana, Illinois for a nominal fee. This computer program can be used for performing the economic calculations for ECIP and non-ECIP ECOs. The AE is encouraged to obtain and use this computer program. The BLAST Support Office can be contacted at 144 Mechanical Engineering Building, 1206 West Green Street, Urbana, Illinois 61801. The telephone number is

(217) 333-3977 or (800) 842-5278.

#### 9. FACILITY SURVEY

The Architect-Engineer (AE) shall conduct a survey of the buildings and building systems listed by Annex B in accordance with TM 5-815-2 and as described herein. Each building/system shall be observed while in operation. The AE shall coordinate with the DPW POC for entry into the facilities, to include weekends or after regular business hours. The survey shall include and document the following items:

a. Verification of as-builts, occupancy schedules, and equipment listing to the extent applicable for incorporation in the EMCS. Verification shall include recording of equipment data for which documentation was not provided but is appropriate for incorporation in the proposed EMCS.

b. Nameplate information such as manufacturer, horsepower, voltage, current and other required data shall be recorded for each piece of equipment to be included in the system.

c. Obtain information for each existing utility meter to be monitored by the EMCS including manufacturer and model number. The A-E shall determine EMCS interface requirements. Metering for reimbursable customers, as designated by the DPW, shall be included in this scope of work.

d. Preliminary routing and costs for the data transmission media (DTM) between buildings and facilities shall be indicated.

e. The AE shall note any discrepancies for buildings or facilities from the as-built drawings during field investigation. Any suspected asbestos or lead paint locations shall also be noted by the AE. Sampling, testing and abatement are not included in this statement of work.

f. Sketches of the installation of EMCS instrumentation and control devices. Sketches shall include location of the Master Control Room (MCR). Location shall be coordinated with facility operating personnel. Need for intercommunications between the MCR and other offices or installation personnel shall be addressed as part of the electrical cost. Cost for 24-hour environmental conditioning of the MCR shall be included.

#### 10. GOVERNMENT-FURNISHED DATA

a. TM 5-815-2, "Energy Monitoring & Control Systems (EMCS)"

b. AR 415-15, "Army Military Construction Program Development and Execution"

c. AR 415-17, "Cost Estimating for Military Programming"

d. TM 5-785, "Engineering Weather Data"

e. "Architectural and Engineering Instructions (AEI)"

f. "EMCS Guide Specifications

(1) CEGS 13810 - Energy Monitoring and Control System (EMCS) Large Configuration

(2) CEGS 13814 - Building Preparation for Energy Monitoring and Control Systems

(3) CEGS 13945 - Multi-Building Expansion of Energy Monitoring and Control Systems

g. "User Guide for Single Building Controllers", UG-0010

h. "EMCS Cost Estimating Guidelines" CEHND-SP-90-ED-ME (revised)

i. Previous studies, design, construction, and operation data from existing EMCS.

j. Most recent Tri-Service Cost Index.

k. DAIM-FDF-U letter dated 10 January 1994, "Energy Conservation Investment Program (ECIP) Guidance"

l. Building Information Schedule

## 12. SUBMITTAL DISTRIBUTION

ORGANIZATION	CORRESPONDENCE	INTERIM & PRE-FINAL	FINAL
Commander U.S. Army Garrison, Fort Meade ATTN: ANME-PWP (Mr. Styles) Building 219 Fort Meade, MD 20755-5115	(1)	(3)	(3)
Commander U.S. Army Engineer District, Baltimore ATTN: CENAB-EN-MP (Mr. Gross) P.O. Box 1715 Baltimore, MD 21203-1715	(1)	(3)	(3)



Commander (1) (1) (1)  
U.S. Army Engineer District, Mobile  
ATTN: CESAM-EN-DM (Mr. Battaglia)  
P.O. Box 2288  
Mobile, AL 36628-1000

Commander (1) (3) (1)  
U.S. Army Engineer Division, Huntsville  
ATTN: HNDED-ME (Mr. Holland)  
P.O. Box 1600, West Station  
Huntsville, AL 35807

Commander (1) (1)  
Fort Lesley J. McNair  
ATTN: Mr. Ralph Gibson  
Building 42, Code ANEN-IS  
Washington, DC 20319-5050  
ATTN: Mr. Gibson

Commander (1) \*  
U.S. Army Corps of Engineers  
ATTN: CEMP-ET (Mr. Gentil)  
20 Massachusetts Avenue, NW  
Washington, D.C. 20314-1000

Commander (1) \*  
U.S. Army Logistics Evaluation Agency  
ATTN: LOEA-PL (Mr. Keath)  
New Cumberland Army Depot  
New Cumberland, PA 17070-5007

\*Copy of the Final executive summary only.

ANNEX B

BUILDINGS INCLUDED IN SURVEY

1. Buildings on Existing EMCS
2. Buildings to Be Added to EMCS

	Cal. Code	Blgd No.	Description	Indiv. Bldg QSF	Envelope	Floor/Roofing	Comments
1	72111	3828	UEPH	128353	Block	Metal/Rail	
1	81050	4550	Administrative	122400	Brick	Concrete/Built Up	
1	74021	2786	Commissary	118000	Brick	Metal/Membrane	
1	72111	5801	UEPH: 5802, 5803, 5804	80550	Block	Concrete/Built Up	Four Similar Buildings
1	74053	2790	Main Entrance, Retail	78343	Brick	Metal/Built Up	
1	72111	5827	UEPH	68051	Block	Metal/Built Up	
1	81050	1978	Administrative	43547	Block	Metal/Built Up	
1	74028	8330	Physical Fitness Center	41900	Block	Concrete/Built Up	
1	72111	3478	UEPH: 9479, 8544, 8545, 3805, 3608, 8607, 8609, 2810, 8611	38480	Block	Concrete/Built Up	Ten Similar Buildings 720, 84
1	73020	7100	Chapel Center Facility	30503	Brick	Wood/Shingle/Rail	
1	74088	3452	Rec. Center	27448	Block	Wood/Built Up	
1	81050	2234	Administrative	25182	Brick	Wood/Built Up	
1	74068	909	Youth Center	23000	Brick	Metal/Metal	
1	72111	2481	UEPH	17438	Block	Concrete/Built Up	
1	21920	3000	FE Facility	10563	Block	Wood/Built Up	
1	73073	2789	Post Office	8988	Brick	Metal/Built Up	
1	81050	378	Administrative	8120	Metal	Metal/Metal	
1	82118	8481	Heat Plant	7718	Block	Concrete/Built Up	
1	82118	2251	Heat Plant	3534	Metal	Metal/Metal	
1	82118	2482	Heat Plant	3414	Block	Metal/Built Up	
2	81050	4553	Administrative	105538	Brick	Wood/Shingle	270, 212
2	81050	4554	Administrative	98730	Brick	Wood/Shingle	
2	81050	4215	Administrative	74059	Brick	Wood/Shingle	
2	81050	4532	Administrative	57824	Brick	Wood/Shingle	
2	81050	2257	Administrative	51712	Block	Wood/Shingle	
2	81050	4411	Administrative	39379	Brick	Wood/Shingle	
2	81050	4216	Administrative	37244	Brick	Wood/Shingle	375, 948
2	17115	4700	Band Training Facility	36819	Wood	Wood/Rail	
2	81050	4217	Administrative	34548	Brick	Wood/Shingle	
2	53020	2480	Laboratory	34144	Block	Concrete/Built Up	
2	72410	4705	Officers Qtrs, Incl. 4707, 4708	24850	Block	Concrete/Built Up	Three Similar Buildings
2	74043	5800	Clean Dining, Officer	23552	Brick	Metal/Built Up	
2	74089	9810	Rec. Center	22287	Block	Metal/Built Up	
2	74047	370	Clean Dining, NCO	19533	Block	Wood/Built Up	
2	81050	4432	Administrative	18640	Block	Concrete/Built Up	
2	74022	5830	Skill Development Center	18300	Block	Metal/Built Up	
2	44225	2484	Medical Supply Warehouse	18185	Metal	Metal/Metal	
2	72210	5829	Enlisted Personnel Dining	18905	Block	Metal/Metal	
2	73410	4703	Officers Qtrs, Incl. 4704, 4717, 4720, 4721	14873	Brick	Concrete/Built Up	Five Similar Buildings
2	81050	4551	Administrative	13614	Brick	Wood/Shingle	
2	74030	5809	Golf Clubhouse	12800	Brick	Wood/Shingle	
2	44220	1978	Warehouse	11724	Block	Metal/Built Up	
2	21210	2220	Guided Missile Maintenance Facility	11520	Block	Metal/Built Up	
2	74088	4537	Exchange Service Outlet	11440	Block	Wood/Shingle	
2	81050	383	Administrative	10368	Block	Wood/Rail	
2	73017	4419	Post Chapel	10290	Brick	Wood/Shingle	
2	54010	8472	Dental Clinic	10000	Block	Wood/Built Up	374, 247
2	73017	3465	Post Chapel	9587	Block	Wood/Built Up	
2	74041	4418	Library	7953	Block	Gypsum/Shingle	
2	74023	4471	ACAP/Credit Union	7248	Block	Wood/Shingle	
2	74078	4431	Theater w/ Dressing Room	5812	Brick	Wood/Shingle	
2	21410	3486	ORG Vehicle Maintenance Shop	4884	Block	Wood/Rail	
2	21410	3485	ORG Vehicle Maintenance Shop	4864	Block	Wood/Rail	
2	74052	4560	Exchange Service Station	4174	Block	Wood/Built Up	
2	14123	3477	Battalion Headquarters Building	3504	Block	Gypsum/Built Up	
2	14133	3476	Battalion Headquarters Building	3344	Block	Concrete/Built Up	
2	74056	4675	Exchange Service Outlet	1710	Metal	Metal/Metal	530X

3	74055	340	Marine Support office	31720	Wood	Wood/Shingle
3	74052	2793	Guest Housing	28248	Concrete	Wood/Shingle
3	61080	2282	Administrative R&D	22796	Wood	Gypsum/Build Up
3	17180	504	Training Aide Center	20580	Wood	Wood/Shingle
3	21420	2253	DS Vehicle Maintenance Shop	18912	Block	Wood/Shingle
3	61050	2501	Administrative	14754	Wood	Wood/Shingle
3	61050	2212	Administrative	9058	Wood	Wood/Shingle
3	61050	2812	Administrative	4720	Wood	Wood/Shingle

55 buildings 148,784

**ATTACHMENT SECTION 8.2**

**BUILDING ENVELOPE,**

**EQUIPMENT SCHEDULE, PHOTOGRAPHS**

**AND ESA/EZDOE OUTPUT**

**ATTACHMENT SECTION 8.2A**

**BUILDINGS 370 TO 2490**

# FT. MEADE, MARYLAND

**Building:** 370

**Square feet** 19,583

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Stucco	0.20
12" Conc. Block	2.48
Inside Surface	0.68
Total R-Value	3.53
Total U-Value	0.28

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Asphalt Shingles	0.21
1-1/2" Gypsum Sheathing	1.12
Air Space	0.98
1/2" Gyp. Board Ceiling	0.45
Inside Surface	0.61
Total R-Value	3.54
Total U-Value	0.28

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	15
No. of Basement Levels	0
Gross Floor Area	19583
Roof Area	11410
Estimated Infiltration (cfm)	2000
Gross Wall Area	4692
Door Area	126
Gross Window Area	906
Other	
Net Wall Area	3660

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (3660 \times 0.28) + (11410 \times 0.28) + (126 \times 1.0) + (906 \times 0.55) = 4844$$

**BUILDING NO. 370**

[illegible]



## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 370
Case: 1
Description:
=====

```

```

-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-1
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	119.081	387	0.0	0
Vent/Recirculation	12.697	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	131.779	387	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	127,816 cf /yr	387 kWh/yr	0.0 kW	4 mh/yr

```

=====

```

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-2				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	49.831	162	0.0	0
Vent/Recirculation	4.761	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
-----				
Subtotals	54.592	162	0.0	4
Heating Value /	1,031 Btu/cf			
=====				
Totals	52,951	162	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-3				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	47.449	154	0.0	0
Vent/Recirculation	3.968	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
-----				
Subtotals	51.417	154	0.0	4
Heating Value /	1,031 Btu/cf			
=====				
Totals	49,871	154	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-4				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	112.669	366	0.0	0
Vent/Recirculation	12.697	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	125.366	366	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	121,597 cf /yr	366 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: C-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	6,279	0.0	0
Demand Limiting	0.000	0	2.4	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	6,279 kWh/yr	2.4 kW	4 mh/yr

## EMCS Annual Energy Savings for Building 370

Description	Value	Units
Natural gas (methane)	352,235	cf /yr
Electrical Energy	7,349	kWh/yr
Electrical Demand Reduction	2.4	kW
Labor Savings	20	mh/yr

# FT. MEADE, MARYLAND

Building: 375

Square feet 8,120

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Metal Siding	0.00
3" Insulation	8.00
Gyp Board	0.56
Inside Surface	0.68
Total R-Value	9.41
Total U-Value	0.11

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Metal Roof	0.00
3" Insulation	11.00
Air Space	1.10
Acoustical Tile	1.89
Inside Surface	0.61
Total R-Value	14.77
Total U-Value	0.07

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	16
No. of Basement Levels	
Gross Floor Area	8120
Roof Area	8120
Estimated Infiltration (cfm)	1000
Gross Wall Area	7680
Door Area	1000
Gross Window Area	300
Other	
Net Wall Area	6380

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	1.00
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$U_oA_o = (6380 \times 0.11) + (8120 \times 0.07) + (300 \times 1.0) + (1000 \times 1.0) = 2570.2$$

**BUILDING NO. 375**

[illegible]

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 375

Case: 1

Description: MAIL ROOM AND WAREHOUSE

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Single Zone DX-A/C

Description: OFFICE A/C UNIT

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	622	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	622	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Direct Fired Furnace

Description: BLDG H&amp;V FORCED AIR FURNACE

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	81.600	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	81.600	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	79,146	0	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: BLDG LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	6,864	0.0	0
Totals	0.000	6,864	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 375

Description	Value	Units
Natural gas (methane)	79,146	cf /yr
Electrical Energy	7,486	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	8	mh/yr

# FT. MEADE, MARYLAND

**Building:** 393

**Square feet** 10440

Exterior Wall	
Components	R-Value
Outside Surface	0.17
8" CMU	1.04
2" Air Space	0.98
3/8" Sheetrock	0.32
1/4" Wall Board	0.06
Inside Surface	0.68
Total R-Value	3.25
Total U-Value	0.31

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roofing	0.33
Wood Deck	0.93
12" Air Space	0.98
Acoustical Tile Ceiling	1.89
Inside Surface	0.61
Total R-Value	4.91
Total U-Value	0.20

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	11.5
No. of Basement Levels	0
Gross Floor Area	10440
Roof Area	10440
Estimated Infiltration (cfm)	1400
Gross Wall Area	5208
Door Area	126
Gross Window Area	768
Other	
Net Wall Area	4314

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (4314 \times 0.31) + (10440 \times 0.2) + (126 \times 1.0) + (768 \times 0.6) = 4012$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 393

Page 1 of 1

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name		Furnace	DX Cond						
COOLING:									
Type of Cooling		1	1						
Air Side		1							
Location in Building									
Area Sq. Feet		10440							
Supply CFM		12000							
Supply Fan HP		5							
O.A. CFM or %		4500							
Return CFM									
Return Fan HP									
Chiller Tonnage			46						
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
HEATING:									
Type of Heating		4							
Source		1							
MBTUH									
Hot Water Pump HP									
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling		Type of Heating			Type of Heating				
(1) Air Cooled DX		(4) Water Cooled Chiller			(1) Boiler Hot Water				
(2) Water Cooled DX		(5) Central Plant Supplied			(2) Boiler Steam				
(3) Air Cooled Chiller		(6) Other			(3) Steam to Hot Water Converter				
Air Side		Heating Source			Heating Source				
(1) Single Zone		(4) VAV w/ Reheat			(1) Natural Gas				
(2) Multi-Zone		(5) Constant Volume Reheat			(2) Central Plant Steam				
(3) VAV		(6) Heating and Ventilating			(3) Central Plant Hot Water				
					(4) Furnace				
					(4) Oil				
					(5) Electric				

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 393

Case: 1

Description:

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Single Zone AHU

Description: F-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	282.955	919	0.0	0
Vent/Recirculation	48.249	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	331.204	919	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	321,245	919	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: C-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	3,434	0.0	0
Optimum Start/Stop	0.000	0	0.0	0
Duty Cycling	0.000	2,328	0.0	0
Demand Limiting	0.000	0	0.7	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	5,762	0.7	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: Lighting				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	52,416	0.0	0
Totals	0.000	52,416	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 393

Description	Value	Units
Natural gas (methane)	321,245	cf /yr
Electrical Energy	59,097	kWh/yr
Electrical Demand Reduction	0.7	kW
Labor Savings	8	mh/yr

# FT. MEADE, MARYLAND

**Building:** 504

**Square feet** 20,580

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Vinyl Siding	0.44
1" Insulation	6.00
Wood Siding	0.93
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	<b>9.88</b>
Total U-Value	<b>0.10</b>

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
Air Space	1.10
Insulation	11.00
Gyp Board	0.56
Inside Surface	0.61
Total R-Value	<b>14.81</b>
Total U-Value	<b>0.07</b>

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	9
No. of Basement Levels	
Gross Floor Area	20580
Roof Area	20580
Estimated Infiltration (cfm)	3100
Gross Wall Area	15650
Door Area	126
Gross Window Area	891
Other	
Net Wall Area	14633

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (14633 \times 0.1) + (20580 \times 0.07) + (891 \times 0.6) + (126 \times 1.0) = 3564.5$$



BUILDING NO. 504

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name	Boiler		Unit Htrs						
COOLING:									
Type of Cooling									
Air Side									
Location in Building									
Area Sq. Feet									
Supply CFM									
Supply Fan HP	2								
O.A. CFM or %									
Return CFM									
Return Fan HP									
Chiller Tonnage									
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
HEATING:									
Type of Heating	2								
Source	1		2						
MBTUH	3197/1965								
Hot Water Pump HP									
Condensate Pump HP	1/3								
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling		Type of Heating							
(1) Air Cooled DX	(4) Water Cooled Chiller	(1) Boiler Hot Water			(4) Furnace				
(2) Water Cooled DX	(5) Central Plant Supplied	(2) Boiler Steam			(3) Steam to Hot Water Converter				
(3) Air Cooled Chiller	(6) Other				Heating Source				
Air Side									
(1) Single Zone	(4) VAV w/ Reheat				(1) Natural Gas				
(2) Multi-Zone	(5) Constant Volume Reheat				(2) Central Plant Steam				
(3) VAV	(6) Heating and Ventilating				(3) Central Plant Hot Water				

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 504

Case: 1

Description: TRAINING AIDE CENTER

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Steam Unit Heater

Description: STEAM UNIT HEATERS

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	134.058	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	134.058	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	130,027 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Steam Radiation

Description: STEAM RADIATION				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	69.102	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	69.102	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	67,024 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	52,416	0.0	0
Totals	0.000 MBtu/yr	52,416 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 504

Description	Value	Units
Natural gas (methane)	197,051	cf /yr
Electrical Energy	52,416	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	8	mh/yr

# FT. MEADE, MARYLAND

Building: 909

Square feet 23,000

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
1" Insulation Rigid	6.00
Concrete Block	1.72
3 1/2" Batt Insulation	11.00
Inside Surface	0.68
Total R-Value	20.01
Total U-Value	0.05

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Metal Roof	0.00
2" Rigid Insulation	12.00
Air Space	1.10
8" Batt Insulation	19.00
Inside Surface	0.61
Total R-Value	32.88
Total U-Value	0.03

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	21
No. of Basement Levels	
Gross Floor Area	23000
Roof Area	23000
Estimated Infiltration (cfm)	
Gross Wall Area	15640
Door Area	190
Gross Window Area	910
Other	
Net Wall Area	14540

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	0.10
Other	
Door Type 1	1.00
Door Type 2	0.60
Door Type 3	





BUILDING NO. 909

[illegible]

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 909

Case: 1

Description: YOUTH CENTER

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Single Zone DX-A/C

Description: ACC-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.1	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	1.1	4

## Annual Energy Savings Table for Single Zone DX-A/C

Description: ACC-2

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.1	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	1.1	4

## Annual Energy Savings Table for Single Zone DX-A/C

Description: ACC-3

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.4	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	0.4	4

## Annual Energy Savings Table for Single Zone DX-A/C

Description: ACC-4

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.4	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	0.4	4

## Annual Energy Savings Table for Steam/Hot Water Converter

Description: CONVERTOR

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	19.385	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	19.385	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	18,802	0	0.0	4

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	65,520	0.0	0
Totals	0.000	65,520	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 909

Description	Value	Units
Natural gas (methane)	18,802	cf /yr
Electrical Energy	65,520	kWh/yr
Electrical Demand Reduction	3.1	kW
Labor Savings	20	mh/yr

**UMCS FEASIBILITY STUDY  
FORT MEADE  
BUILDING 909 - YOUTH CENTER  
DOE ENERGY SAVINGS SUMMARY**

	Space Heat		Space Cool	HVAC Aux	Lights	Misc Equip	TOTAL		TOTAL	
	Electricity mmBtu	Natural Gas mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Natural Gas mmBtu	Electricity Kwh	Natural Gas MCF
Existing	31.7	588.9	152.2	164.7	210.3	19.8	578.6	588.9	169,519	571.2
New w/Night Setback	9.8	187.0	153.5	73.5	210.3	19.8	466.9	187.0	136,798	181.4
Night Setback Savings							111.7	401.9	32,722	389.8
New w/Night Setback and Vent/Recirc	9.6	182.1	130.3	73.3	210.3	19.8	443.3	182.1	129,880	176.6
Vent/Recirc Savings							23.6	4.9	6,918	4.8

EXISTING

ENTECH ENGINEERING READING, PA 19603 - HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC UMCS FEASIBILITY STUDY			DOE-2.1D 12/ 1/1995 11:44:53 SDL RUN 1 BUILDING 909 - YOUTH ACTIVITY CENTER			PAGE 1- 1
SYS	MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-2
		COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW
		----(47)	----( 5)	----(70)	----(46)	----(47)	----( 5)	----(70)	----(46)
	MONTHLY SUMMARY (JAN)								
	MN	0.000	-126034.	190990.	0.000	0.000	-88330.	217925.	0.000
	MX	0.000	0.	246134.	0.000	0.000	0.	280847.	0.000
	SM	0.000	-39838104.	163265104.	0.000	0.000	-22443394.	186116960.	0.000
	AV	0.000	-53546.	219442.	0.000	0.000	-30166.	250157.	0.000
	MONTHLY SUMMARY (FEB)								
	MN	0.000	-121962.	189108.	0.000	0.000	-86782.	215778.	0.000
	MX	0.000	0.	246134.	0.000	0.000	0.	280847.	0.000
	SM	0.000	-31235732.	145702224.	0.000	0.000	-13484767.	165186944.	0.000
	AV	0.000	-46482.	216819.	0.000	0.000	-20067.	245814.	0.000
	MONTHLY SUMMARY (MAR)								
	MN	0.000	-88117.	183550.	0.000	0.000	-53211.	202226.	0.000
	MX	0.000	0.	230167.	0.000	0.000	0.	260628.	0.000
	SM	0.000	-21051210.	155850528.	0.000	0.000	-3885684.	176242656.	0.000
	AV	0.000	-28295.	209477.	0.000	0.000	-5223.	236885.	0.000
	MONTHLY SUMMARY (APR)								
	MN	0.000	-72464.	179393.	0.000	0.000	-45609.	203243.	0.000
	MX	0.000	0.	234863.	0.000	0.000	0.	253318.	0.000
	SM	0.000	-10558371.	146904816.	0.000	0.000	-809237.	164953120.	0.000
	AV	0.000	-14664.	204034.	0.000	0.000	-1124.	229102.	0.000
	MONTHLY SUMMARY (MAY)								
	MN	0.000	0.	171089.	0.000	0.000	0.	189372.	0.000
	MX	12.707	0.	225753.	0.000	14.942	0.	244979.	0.000
	SM	793.138	0.	144117968.	0.000	1433.212	0.	162469888.	0.000
	AV	1.066	0.	193707.	0.000	1.926	0.	218374.	0.000
	MONTHLY SUMMARY (JUN)								
	MN	0.000	0.	166819.	0.000	0.000	0.	187450.	0.000
	MX	19.242	0.	234948.	0.000	29.597	0.	241813.	0.000
	SM	2991.291	0.	138933408.	0.000	4069.744	0.	153714784.	0.000
	AV	4.155	0.	192963.	0.000	5.652	0.	213493.	0.000
	MONTHLY SUMMARY (JUL)								
	MN	0.000	0.	171242.	0.000	0.000	0.	191556.	0.000
	MX	18.574	0.	219745.	0.000	18.892	0.	252073.	0.000
	SM	4197.077	0.	146959888.	0.000	5313.867	0.	160289440.	0.000
	AV	5.641	0.	197527.	0.000	7.142	0.	215443.	0.000

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-2
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW
	----(47)	----( 5)	----(70)	----(46)	----(47)	----( 5)	----(70)	----(46)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	178123.	0.000	0.000	0.	190465.	0.000
MX	19.065	0.	227925.	0.000	19.096	0.	247834.	0.000
SM	4143.697	0.	147209456.	0.000	4558.182	0.	160962144.	0.000
AV	5.569	0.	197862.	0.000	6.127	0.	216347.	0.000
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	176342.	0.000	0.000	0.	190391.	0.000
MX	18.354	0.	221431.	0.000	18.311	0.	245167.	0.000
SM	2129.836	0.	139591360.	0.000	2585.558	0.	155485456.	0.000
AV	2.958	0.	193877.	0.000	3.591	0.	215952.	0.000
MONTHLY SUMMARY (OCT)								
MN	0.000	-96586.	171089.	0.000	0.000	-37516.	195218.	0.000
MX	11.195	0.	225726.	0.000	11.375	0.	248528.	0.000
SM	413.068	-6738183.	146104848.	0.000	778.794	-1852930.	164955088.	0.000
AV	0.555	-9057.	196377.	0.000	1.047	-2490.	221714.	0.000
MONTHLY SUMMARY (NOV)								
MN	0.000	-75215.	187241.	0.000	0.000	-49506.	213505.	0.000
MX	0.000	0.	247626.	0.000	0.000	0.	253318.	0.000
SM	0.000	-18510164.	150725600.	0.000	0.000	-6968305.	169739200.	0.000
AV	0.000	-25709.	209341.	0.000	0.000	-9678.	235749.	0.000
MONTHLY SUMMARY (DEC)								
MN	0.000	-103713.	192832.	0.000	0.000	-69276.	217059.	0.000
MX	0.000	0.	236053.	0.000	0.000	0.	269343.	0.000
SM	0.000	-33548890.	160720416.	0.000	0.000	-19983432.	182412048.	0.000
AV	0.000	-45093.	216022.	0.000	0.000	-26859.	245177.	0.000
YEARLY SUMMARY								
MN	0.000	-126034.	166819.	0.000	0.000	-88330.	187450.	0.000
MX	19.242	0.	247626.	0.000	19.597	0.	280847.	0.000
SM	14668.106	-161480656.	1786085632.	0.000	18739.355	-69427744.	2002527744.	0.000
AV	1.674	-18434.	203891.	0.000	2.139	-7926.	228599.	0.000

ENTECH ENGINEERING READING, PA 19603 * HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC UMCS FEASIBILITY STUDY			DOE-2.1D 12/ 1/1995 11:44:53 SDL RUN 1 BUILDING 909 - YOUTH ACTIVITY CENTER			PAGE 1- 2
SYS									
MMDDHH	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4	AHU-4	AHU-4	AHU-4	
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	
	----(47)	----( 5)	----(70)	----(46)	----(47)	----( 5)	----(70)	----(46)	
MONTHLY SUMMARY (JAN)									
MN	0.000	-45476.	68645.	0.000	0.000	-43933.	68633.	0.000	
MX	0.000	0.	88465.	0.000	0.000	0.	88449.	0.000	
SM	0.000	-13762697.	58625248.	0.000	0.000	-12440020.	58614904.	0.000	
AV	0.000	-18498.	78797.	0.000	0.000	-16720.	78783.	0.000	
MONTHLY SUMMARY (FEB)									
MN	0.000	-43257.	67969.	0.000	0.000	-41173.	67957.	0.000	
MX	0.000	0.	88465.	0.000	0.000	0.	88449.	0.000	
SM	0.000	-10197001.	52067336.	0.000	0.000	-9366234.	52050960.	0.000	
AV	0.000	-15174.	77481.	0.000	0.000	-13938.	77457.	0.000	
MONTHLY SUMMARY (MAR)									
MN	0.000	-29919.	65643.	0.000	0.000	-29218.	65445.	0.000	
MX	0.000	0.	82096.	0.000	0.000	0.	82081.	0.000	
SM	0.000	-5931948.	55512472.	0.000	0.000	-5422179.	55493584.	0.000	
AV	0.000	-7973.	74614.	0.000	0.000	-7288.	74588.	0.000	
MONTHLY SUMMARY (APR)									
MN	0.000	-26037.	64665.	0.000	0.000	-24460.	64654.	0.000	
MX	0.000	0.	79793.	0.000	0.000	0.	79779.	0.000	
SM	0.000	-2405852.	51817172.	0.000	0.000	-2294851.	51774064.	0.000	
AV	0.000	-3341.	71968.	0.000	0.000	-3187.	71908.	0.000	
MONTHLY SUMMARY (MAY)									
MN	0.000	0.	60792.	0.000	0.000	0.	60583.	0.000	
MX	3.914	0.	77167.	0.000	4.027	0.	77153.	0.000	
SM	339.358	0.	51267700.	0.000	337.512	0.	51237112.	0.000	
AV	0.456	0.	68908.	0.000	0.454	0.	68867.	0.000	
MONTHLY SUMMARY (JUN)									
MN	0.000	0.	59691.	0.000	0.000	0.	59750.	0.000	
MX	6.458	0.	76170.	0.000	6.495	0.	76156.	0.000	
SM	1151.516	0.	48902352.	0.000	1128.372	0.	48930968.	0.000	
AV	1.599	0.	67920.	0.000	1.567	0.	67960.	0.000	
MONTHLY SUMMARY (JUL)									
MN	0.000	0.	60966.	0.000	0.000	0.	60980.	0.000	
MX	6.568	0.	78396.	0.000	6.575	0.	78382.	0.000	
SM	1609.389	0.	51394488.	0.000	1571.088	0.	51535132.	0.000	
AV	2.163	0.	69079.	0.000	2.112	0.	69268.	0.000	



	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4	AHU-4	AHU-4	AHU-4
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW
	---- (47)	---- ( 5)	---- (70)	---- (46)	---- (47)	---- ( 5)	---- (70)	---- (46)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	61775.	0.000	0.000	0.	61829.	0.000
MX	6.430	0.	78066.	0.000	6.443	0.	78052.	0.000
SM	1511.641	0.	51505808.	0.000	1509.516	0.	51572372.	0.000
AV	2.032	0.	69228.	0.000	2.029	0.	69318.	0.000
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	62059.	0.000	0.000	0.	62207.	0.000
MX	6.097	0.	77226.	0.000	6.109	0.	77212.	0.000
SM	805.310	0.	49356680.	0.000	815.367	0.	49390456.	0.000
AV	1.118	0.	68551.	0.000	1.132	0.	68598.	0.000
MONTHLY SUMMARY (OCT)								
MN	0.000	-30731.	61492.	0.000	0.000	-29739.	61481.	0.000
MX	3.739	0.	78285.	0.000	3.843	0.	78271.	0.000
SM	188.130	-1852019.	52041080.	0.000	188.309	-1748359.	51997720.	0.000
AV	0.253	-2489.	69948.	0.000	0.253	-2350.	69889.	0.000
MONTHLY SUMMARY (NOV)								
MN	0.000	-26803.	67297.	0.000	0.000	-24678.	67286.	0.000
MX	0.000	0.	82323.	0.000	0.000	0.	82157.	0.000
SM	0.000	-5947158.	53530400.	0.000	0.000	-5147902.	53504136.	0.000
AV	0.000	-8260.	74348.	0.000	0.000	-7150.	74311.	0.000
MONTHLY SUMMARY (DEC)								
MN	0.000	-36117.	69326.	0.000	0.000	-35422.	69314.	0.000
MX	0.000	0.	84841.	0.000	0.000	0.	84826.	0.000
SM	0.000	-11850593.	57476164.	0.000	0.000	-10440188.	57464316.	0.000
AV	0.000	-15928.	77253.	0.000	0.000	-14033.	77237.	0.000
YEARLY SUMMARY								
MN	0.000	-45476.	59691.	0.000	0.000	-43933.	59750.	0.000
MX	6.568	0.	88465.	0.000	6.575	0.	88449.	0.000
SM	5605.342	-51947264.	633496896.	0.000	5550.165	-46859732.	633565760.	0.000
AV	0.640	-5930.	72317.	0.000	0.634	-5349.	72325.	0.000

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 11:44:53 PDL RUN 1  
 BUILDING 909 - YOUTH ACTIVITY CENTER  
 WEATHER FILE- BALTIMORE, MD

EQUIPMENT	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST
	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL
HW-BOILER	1.100	1 1										
HERM-REC-CHLR	0.100	1 1	0.100	1 1	0.300	1 1	0.400	1 1				

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 11:44:53 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

S I T E E N E R G Y													* SOURCE
2	3	4	5	6	7	8	9	10	11	12	13	14	
MONTH	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	94.4	0.0	41.8 12.3E	0.0	0.0	0.0	0.0 0.0E	154.2	9.1 2.7E	0.0	154.2	196.0	279.8
FEB	69.3	0.0	36.4 10.7E	0.0	0.0	0.0	0.0 0.0E	113.2	6.9 2.0E	0.0	113.2	149.6	222.6
MAR	40.8	0.0	39.0 11.4E	0.0	0.0	0.0	0.0 0.0E	66.7	4.5 1.3E	0.0	66.7	105.7	183.8
APR	19.5	0.0	34.8 10.2E	0.0	0.0	0.0	0.0 0.0E	31.8	2.5 0.7E	0.0	31.8	66.6	136.4
MAY	0.0	0.0	42.6 12.5E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	42.6	127.9
JUN	0.0	0.0	65.1 19.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	65.1	195.4
JUL	0.0	0.0	75.1 22.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	75.1	225.5
AUG	0.0	0.0	74.5 21.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	74.5	223.8
SEP	0.0	0.0	53.9 15.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	53.9	161.8
OCT	14.3	0.0	38.8 11.4E	0.0	0.0	0.0	0.0 0.0E	23.3	1.7 0.5E	0.0	23.3	62.1	139.9
NOV	40.8	0.0	35.8 10.5E	0.0	0.0	0.0	0.0 0.0E	66.6	4.4 1.3E	0.0	66.6	102.4	174.0
DEC	81.4	0.0	40.7 11.9E	0.0	0.0	0.0	0.0 0.0E	133.1	8.0 2.4E	0.0	133.1	173.8	255.4
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	360.5	0.0	578.6 169.5E	0.0	0.0	0.0	0.0 0.0E	588.9	37.2 10.9E	0.0	588.9	1167.5	2326.4

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 11:44:53 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	41.846	154.176
JAN	PEAK (KBTU)	122.297	496.465
	DY/HR	17/ 8	31/ 7
	TOTAL (MBTU)	36.435	113.211
FEB	PEAK (KBTU)	121.450	478.292
	DY/HR	3/ 8	3/ 7
	TOTAL (MBTU)	38.980	66.747
MAR	PEAK (KBTU)	111.927	327.222
	DY/HR	4/ 8	5/ 6
	TOTAL (MBTU)	34.806	31.833
APR	PEAK (KBTU)	110.039	288.137
	DY/HR	8/ 8	9/ 7
	TOTAL (MBTU)	42.598	0.000
MAY	PEAK (KBTU)	214.548	0.000
	DY/HR	6/16	31/ 1
	TOTAL (MBTU)	65.056	0.000
JUN	PEAK (KBTU)	278.001	0.000
	DY/HR	29/16	30/ 1
	TOTAL (MBTU)	75.106	0.000
JUL	PEAK (KBTU)	272.079	0.000
	DY/HR	25/17	31/ 1
	TOTAL (MBTU)	74.539	0.000
AUG	PEAK (KBTU)	275.276	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	53.884	0.000
SEP	PEAK (KBTU)	267.650	0.000
	DY/HR	1/17	30/ 1
	TOTAL (MBTU)	38.832	23.290
OCT	PEAK (KBTU)	204.110	308.588
	DY/HR	13/16	16/ 2
	TOTAL (MBTU)	35.768	66.596
NOV	PEAK (KBTU)	111.270	298.112
	DY/HR	23/ 8	23/ 7
	TOTAL (MBTU)	40.730	133.061
DEC	PEAK (KBTU)	117.409	411.091
	DY/HR	21/ 8	26/ 7
	ONE YEAR	578.581	588.913
	USE/PEAK	278.001	496.465

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 11:44:53 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	360.5	100.0
	*****	*****
LOAD SATISFIED	360.5	100.0
TOTAL LOAD ON PLANT	360.5	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	578.6	100.0
	*****	*****
LOAD SATISFIED	578.6	100.0
TOTAL LOAD ON PLANT	578.6	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 11:44:53 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	360.5	360.5	0.000	0.000	0
ELECTRICAL LOADS	578.6	578.6	0.000	0.000	0

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 11:44:53 PDL RUN 1  
 BUILDING 909 - YOUTH ACTIVITY CENTER  
 WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		DAY		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
			HR	HR	HR	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.069	0.314	1	31	7		1.100	4728								
HERM-REC-CHLR	0.000	0.000	0	0	0		0.100	0	0.100	0	0.300	0	0.400	0		

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOS - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOS-2.1D 12/ 1/1995 11:44:53 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

HW-BOILER 43.3

NOMINAL SIZE (MBTU)		1.100
NUMBER INSTALLED		1
FIRST COST (K\$)	37.8	37.8
ANNUAL COST (K\$)	0.9	0.9
CYCLICAL COST (K\$)	4.6	4.6
-----TOTAL----- (K\$)		43.3

HERM-REC-CHLR 38.5

NOMINAL SIZE (MBTU)		0.100	0.100	0.300	0.400
NUMBER INSTALLED		1	1	1	1
FIRST COST (K\$)	32.1	4.9	4.9	10.1	12.3
ANNUAL COST (K\$)	6.4	1.4	1.4	1.7	1.8
CYCLICAL COST (K\$)	0.0	0.0	0.0	0.0	0.0
-----TOTAL----- (K\$)		6.2	6.2	11.9	14.1

EQUIPMENT TOTAL 81.8



ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	31.68	588.91
SPACE COOL	152.15	0.00
HVAC AUX	164.68	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	210.31	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	19.75	0.00
	-----	-----
TOTAL	578.58	588.91

TOTAL SITE ENERGY 1167.49 MBTU 59.4 KBTU/SQFT-YR GROSS-AREA 59.4 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY 2326.39 MBTU 118.3 KBTU/SQFT-YR GROSS-AREA 118.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.1  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING  
READING, PA 19603  
B1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

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BUILDING 909 - YOUTH ACTIVITY CENTER

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-----  
MMDDHH HW-BOILE HW-BOILE  
R R  
LOAD ELECTRIC  
USE  
BTU/HR BTU/HR

----( 1) ----( 3)

MONTHLY SUMMARY (JAN)

MN	6184.	544.
MX	314467.	24200.
SM	94440720.	8280135.
AV	126936.	11129.

MONTHLY SUMMARY (FEB)

MN	4261.	375.
MX	299204.	24200.
SM	69308168.	6089381.
AV	103137.	9062.

MONTHLY SUMMARY (MAR)

MN	3328.	293.
MX	200241.	17621.
SM	40845148.	3594373.
AV	54899.	4831.

MONTHLY SUMMARY (APR)

MN	2081.	183.
MX	176323.	15516.
SM	19479722.	1714216.
AV	27055.	2381.

MONTHLY SUMMARY (MAY)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
- HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 11:44:53 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

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B1

HW-BOILE HW-BOILE  
R R  
LOAD ELECTRIC  
USE  
BTU/HR BTU/HR

----( 1) ----( 3)

MONTHLY SUMMARY (AUG)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (SEP)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (OCT)

MN	0.	0.
MX	188838.	16618.
SM	14251854.	1254163.
AV	19156.	1686.

MONTHLY SUMMARY (NOV)

MN	2081.	183.
MX	182427.	16054.
SM	40753028.	3586267.
AV	56601.	4981.

MONTHLY SUMMARY (DEC)

MN	5312.	467.
MX	251564.	22138.
SM	81425968.	7165487.
AV	109444.	9631.

YEARLY SUMMARY

MN	0.	0.
MX	314467.	24200.
SM	360504640.	31684020.
AV	41153.	3617.

ENTECH ENGINEERING READING, PA 19603 SYS = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC UMCS FEASIBILITY STUDY			DOB-2.1D 6/28/1996 9:34:25 SDL RUN 1 BUILDING 909 - YOUTH ACTIVITY CENTER			PAGE 1- 1
MMDH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-2	
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	
	----(47)	----(5)	----(70)	----(46)	----(47)	----(5)	----(70)	----(46)	
MONTHLY SUMMARY (JAN)									
MN	0.000	-222455.	0.	0.000	0.000	-160859.	0.	0.000	
MX	0.000	0.	246134.	0.000	0.000	0.	280847.	0.000	
SM	0.000	-12381361.	59546524.	0.000	0.000	-9096970.	71012856.	0.000	
AV	0.000	-16642.	80036.	0.000	0.000	-12227.	95447.	0.000	
MONTHLY SUMMARY (FEB)									
MN	0.000	-213635.	0.	0.000	0.000	-123313.	0.	0.000	
MX	0.000	0.	246134.	0.000	0.000	0.	280847.	0.000	
SM	0.000	-6913781.	49135668.	0.000	0.000	-3174751.	55089952.	0.000	
AV	0.000	-10288.	73119.	0.000	0.000	-4724.	81979.	0.000	
MONTHLY SUMMARY (MAR)									
MN	0.000	-159287.	0.	0.000	0.000	-37252.	0.	0.000	
MX	0.000	0.	231232.	0.000	0.000	0.	258175.	0.000	
SM	0.000	-2684154.	57961868.	0.000	0.000	-671707.	86566192.	0.000	
AV	0.000	-3608.	77906.	0.000	0.000	-903.	116352.	0.000	
MONTHLY SUMMARY (APR)									
MN	0.000	-88568.	0.	0.000	0.000	-11819.	0.	0.000	
MX	0.000	0.	236162.	0.000	0.000	0.	255507.	0.000	
SM	0.000	-346806.	53669108.	0.000	0.000	-1014266.	119970096.	0.000	
AV	0.000	-482.	74540.	0.000	0.000	-1409.	166625.	0.000	
MONTHLY SUMMARY (MAY)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	13.966	0.	218451.	0.000	16.873	0.	243804.	0.000	
SM	1570.397	0.	50512644.	0.000	2437.031	0.	77987312.	0.000	
AV	2.111	0.	67893.	0.000	3.276	0.	104822.	0.000	
MONTHLY SUMMARY (JUN)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	19.554	0.	215736.	0.000	20.703	0.	242644.	0.000	
SM	3072.392	0.	52355444.	0.000	4029.208	0.	85475416.	0.000	
AV	4.267	0.	72716.	0.000	5.596	0.	118716.	0.000	
MONTHLY SUMMARY (JUL)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	18.650	0.	211886.	0.000	20.901	0.	245730.	0.000	
SM	3384.639	0.	47801108.	0.000	4311.945	0.	87267064.	0.000	
AV	4.549	0.	64249.	0.000	5.796	0.	117294.	0.000	

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-2
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW
	---- (47)	---- (5)	---- (70)	---- (46)	---- (47)	---- (5)	---- (70)	---- (46)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	19.249	0.	213780.	0.000	20.469	0.	242976.	0.000
SM	3773.703	0.	54739244.	0.000	4133.435	0.	81607904.	0.000
AV	5.072	0.	73574.	0.000	5.556	0.	109688.	0.000
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	18.946	0.	214386.	0.000	19.907	0.	242235.	0.000
SM	2481.315	0.	49984988.	0.000	2727.089	0.	68443456.	0.000
AV	3.446	0.	69424.	0.000	3.788	0.	95060.	0.000
MONTHLY SUMMARY (OCT)								
MN	0.000	-76051.	0.	0.000	0.000	-11389.	0.	0.000
MX	13.021	0.	225475.	0.000	13.139	0.	248528.	0.000
SM	1123.711	-420894.	48950948.	0.000	1414.495	-29180.	58631148.	0.000
AV	1.510	-566.	65794.	0.000	1.901	-39.	78805.	0.000
MONTHLY SUMMARY (NOV)								
MN	0.000	-126632.	0.	0.000	0.000	-79011.	0.	0.000
MX	0.000	0.	248522.	0.000	0.000	0.	255203.	0.000
SM	0.000	-1968576.	51704320.	0.000	0.000	-1141801.	60286188.	0.000
AV	0.000	-2734.	71812.	0.000	0.000	-1586.	83731.	0.000
MONTHLY SUMMARY (DEC)								
MN	0.000	-200324.	0.	0.000	0.000	-123935.	0.	0.000
MX	0.000	0.	236053.	0.000	0.000	0.	269343.	0.000
SM	0.000	-7592247.	54401712.	0.000	0.000	-6922292.	61832656.	0.000
AV	0.000	-10205.	73121.	0.000	0.000	-9304.	83108.	0.000
YEARLY SUMMARY								
MN	0.000	-222455.	0.	0.000	0.000	-160859.	0.	0.000
MX	19.554	0.	248522.	0.000	20.901	0.	280847.	0.000
SM	15406.156	-32307818.	630763584.	0.000	19053.201	-22050966.	914170240.	0.000
AV	1.759	-3688.	72005.	0.000	2.175	-2517.	104357.	0.000

MMDDHH	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4	AHU-4	AHU-4	AHU-4
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW
	----(47)	----( 5)	----(70)	----(46)	----(47)	----( 5)	----(70)	----(46)
MONTHLY SUMMARY (JAN)								
MN	0.000	-87581.	0.	0.000	0.000	-86329.	0.	0.000
MX	0.000	0.	88465.	0.000	0.000	0.	88449.	0.000
SM	0.000	-6110297.	23423982.	0.000	0.000	-4482363.	22103326.	0.000
AV	0.000	-8213.	31484.	0.000	0.000	-6025.	29709.	0.000
MONTHLY SUMMARY (FEB)								
MN	0.000	-80753.	0.	0.000	0.000	-77589.	0.	0.000
MX	0.000	0.	88465.	0.000	0.000	0.	88449.	0.000
SM	0.000	-3240249.	18013876.	0.000	0.000	-2192984.	17361518.	0.000
AV	0.000	-4822.	26806.	0.000	0.000	-3263.	25836.	0.000
MONTHLY SUMMARY (MAR)								
MN	0.000	-59288.	0.	0.000	0.000	-55204.	0.	0.000
MX	0.000	0.	81323.	0.000	0.000	0.	81309.	0.000
SM	0.000	-1027462.	20302114.	0.000	0.000	-554547.	20296050.	0.000
AV	0.000	-1381.	27288.	0.000	0.000	-745.	27280.	0.000
MONTHLY SUMMARY (APR)								
MN	0.000	-26243.	0.	0.000	0.000	-22289.	0.	0.000
MX	0.000	0.	79793.	0.000	0.000	0.	79779.	0.000
SM	0.000	-138999.	18465844.	0.000	0.000	-45719.	18655486.	0.000
AV	0.000	-193.	25647.	0.000	0.000	-63.	25910.	0.000
MONTHLY SUMMARY (MAY)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	4.329	0.	76797.	0.000	4.436	0.	76783.	0.000
SM	538.409	0.	17257426.	0.000	554.148	0.	17244286.	0.000
AV	0.724	0.	23195.	0.000	0.745	0.	23178.	0.000
MONTHLY SUMMARY (JUN)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	6.739	0.	71415.	0.000	6.752	0.	71038.	0.000
SM	1066.938	0.	17992704.	0.000	1056.341	0.	17596722.	0.000
AV	1.482	0.	24990.	0.000	1.467	0.	24440.	0.000
MONTHLY SUMMARY (JUL)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	6.792	0.	73197.	0.000	6.770	0.	71128.	0.000
SM	1160.955	0.	16662658.	0.000	1150.761	0.	16053807.	0.000
AV	1.560	0.	22396.	0.000	1.547	0.	21578.	0.000

	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4	AHU-4	AHU-4	AHU-4
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW
	----(47)	----( 5)	----(70)	----(46)	----(47)	----( 5)	----(70)	----(46)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	5.660	0.	70987.	0.000	6.675	0.	70928.	0.000
SM	1278.037	0.	18331272.	0.000	1287.088	0.	18356098.	0.000
AV	1.718	0.	24639.	0.000	1.730	0.	24672.	0.000
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	6.482	0.	73168.	0.000	6.491	0.	73155.	0.000
SM	816.561	0.	16837770.	0.000	839.907	0.	16836158.	0.000
AV	1.134	0.	23386.	0.000	1.167	0.	23384.	0.000
MONTHLY SUMMARY (OCT)								
MN	0.000	-30843.	0.	0.000	0.000	-26626.	0.	0.000
MX	4.244	0.	78285.	0.000	4.382	0.	78271.	0.000
SM	356.798	-197396.	16594709.	0.000	394.689	-110509.	16565257.	0.000
AV	0.480	-265.	22305.	0.000	0.530	-149.	22265.	0.000
MONTHLY SUMMARY (NOV)								
MN	0.000	-59226.	0.	0.000	0.000	-51979.	0.	0.000
MX	0.000	0.	82680.	0.000	0.000	0.	82559.	0.000
SM	0.000	-1267402.	17898272.	0.000	0.000	-511912.	17968804.	0.000
AV	0.000	-1760.	24859.	0.000	0.000	-850.	24957.	0.000
MONTHLY SUMMARY (DEC)								
MN	0.000	-74020.	0.	0.000	0.000	-76503.	0.	0.000
MX	0.000	0.	84841.	0.000	0.000	0.	84826.	0.000
SM	0.000	-4243262.	20222048.	0.000	0.000	-2694300.	19258718.	0.000
AV	0.000	-5703.	27180.	0.000	0.000	-3621.	25885.	0.000
YEARLY SUMMARY								
MN	0.000	-87581.	0.	0.000	0.000	-86329.	0.	0.000
MX	6.792	0.	88465.	0.000	6.770	0.	88449.	0.000
SM	5217.697	-16225066.	222002656.	0.000	5282.935	-10692332.	218296240.	0.000
AV	0.596	-1952.	25343.	0.000	0.603	-1222.	24920.	0.000

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST
	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL
HW-BOILER	1.100	1 1										
HERM-REC-CHLR	0.100	1 1	0.100	1 1	0.300	1 1	0.400	1 1				



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

S I T E E N E R G Y													* SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	* 14
MONTH	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	* TOTAL SOURCE ENERGY
JAN	38.4	0.0	29.1 8.5E	0.0	0.0	0.0	0.0 0.0E	61.7	4.8 1.4E	0.0	61.7	90.8	* 149.1
FEB	20.9	0.0	24.7 7.2E	0.0	0.0	0.0	0.0 0.0E	33.9	3.2 0.9E	0.0	33.9	58.6	* 108.1
MAR	10.2	0.0	29.2 8.6E	0.0	0.0	0.0	0.0 0.0E	16.7	2.5 0.7E	0.0	16.7	45.9	* 104.5
APR	5.8	0.0	27.9 8.2E	0.0	0.0	0.0	0.0 0.0E	9.4	2.0 0.6E	0.0	9.4	37.3	* 93.2
MAY	0.0	0.0	42.0 12.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	42.0	* 126.2
JUN	0.0	0.0	57.5 16.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	57.5	* 172.6
JUL	0.0	0.0	58.1 17.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	58.1	* 174.5
AUG	0.0	0.0	62.6 18.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	62.6	* 188.1
SEP	0.0	0.0	47.8 14.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	47.8	* 143.4
OCT	3.1	0.0	35.2 10.3E	0.0	0.0	0.0	0.0 0.0E	5.1	1.1 0.3E	0.0	5.1	40.3	* 110.8
NOV	9.7	0.0	25.1 7.4E	0.0	0.0	0.0	0.0 0.0E	15.8	2.4 0.7E	0.0	15.8	40.9	* 91.2
DEC	27.4	0.0	27.7 8.1E	0.0	0.0	0.0	0.0 0.0E	44.3	3.9 1.1E	0.0	44.3	72.0	* 127.4
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	* *****
	115.5	0.0	466.9 136.7E	0.0	0.0	0.0	0.0 0.0E	187.0	19.3 5.3E	0.0	187.0	653.9	* 1589.1

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	29.080	61.740
JAN	PEAK (KBTU)	127.499	794.618
	DY/HR	31/11	31/ 7
	TOTAL (MBTU)	24.718	33.911
FEB	PEAK (KBTU)	127.499	671.590
	DY/HR	14/ 8	14/ 7
	TOTAL (MBTU)	29.235	16.696
MAR	PEAK (KBTU)	120.073	463.274
	DY/HR	7/ 8	7/ 7
	TOTAL (MBTU)	27.897	9.442
APR	PEAK (KBTU)	110.569	259.750
	DY/HR	11/ 8	11/ 7
	TOTAL (MBTU)	42.019	0.000
MAY	PEAK (KBTU)	230.505	0.000
	DY/HR	6/16	31/ 1
	TOTAL (MBTU)	57.479	0.000
JUN	PEAK (KBTU)	284.196	0.000
	DY/HR	29/16	30/ 1
	TOTAL (MBTU)	58.106	0.000
JUL	PEAK (KBTU)	282.502	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	62.624	0.000
AUG	PEAK (KBTU)	282.305	0.000
	DY/HR	18/16	31/ 1
	TOTAL (MBTU)	47.752	0.000
SEP	PEAK (KBTU)	278.115	0.000
	DY/HR	1/16	30/ 1
	TOTAL (MBTU)	35.176	5.140
OCT	PEAK (KBTU)	218.390	241.586
	DY/HR	13/16	24/ 7
	TOTAL (MBTU)	25.117	15.818
NOV	PEAK (KBTU)	123.764	514.509
	DY/HR	28/ 8	28/ 7
	TOTAL (MBTU)	27.698	44.267
DEC	PEAK (KBTU)	127.499	663.883
	DY/HR	27/ 9	27/ 7
	ONE YEAR	466.900	187.014
	USE/PEAK	284.196	794.618

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	115.5	100.0
	=====	=====
LOAD SATISFIED	115.5	100.0
TOTAL LOAD ON PLANT	115.5	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	466.9	100.0
	=====	=====
LOAD SATISFIED	466.9	100.0
TOTAL LOAD ON PLANT	466.9	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	115.5	115.5	0.000	0.000	0
ELECTRICAL LOADS	466.9	466.9	0.000	0.000	0

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.022	0.570	1 31 7	1.100 4728				
HERM-REC-CHLR	0.000	0.000	0 0 0	0.100 0	0.100 0	0.300 0	0.400 0	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

HW-BOILER 43.3

NOMINAL SIZE (MBTU)		1.100
NUMBER INSTALLED		1
FIRST COST (K\$)	37.8	37.8
ANNUAL COST (K\$)	0.9	0.9
CYCLICAL COST (K\$)	4.6	4.6
-----TOTAL----- (K\$)		43.3

HERM-REC-CHLR 38.5

NOMINAL SIZE (MBTU)		0.100	0.100	0.300	0.400
NUMBER INSTALLED		1	1	1	1
FIRST COST (K\$)	32.1	4.9	4.9	10.1	12.3
ANNUAL COST (K\$)	6.4	1.4	1.4	1.7	1.8
CYCLICAL COST (K\$)	0.0	0.0	0.0	0.0	0.0
-----TOTAL----- (K\$)		6.2	6.2	11.9	14.1

EQUIPMENT TOTAL 81.8

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	9.83	187.01
SPACE COOL	153.51	0.00
HVAC AUX	73.49	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	210.32	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	19.75	0.00
	-----	-----
TOTAL	466.90	187.01

TOTAL SITE ENERGY    653.91 MBTU    33.3 KBTU/SQFT-YR GROSS-AREA    33.3 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY    1589.12 MBTU    80.8 KBTU/SQFT-YR GROSS-AREA    30.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 10.3  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED    = 0.0

NOTE    ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDH H HW-BOILE  
 R R  
 LOAD ELECTRIC  
 USE  
 BTU/HR BTU/HR

---- ( 1 ) ---- ( 3 )

MONTHLY SUMMARY (JAN)

MN	3773.	332.
MX	570134.	24200.
SM	38375348.	3188496.
AV	51580.	4286.

MONTHLY SUMMARY (FEB)

MN	3773.	332.
MX	463408.	24200.
SM	20920230.	1786917.
AV	31131.	2659.

MONTHLY SUMMARY (MAR)

MN	3773.	332.
MX	286617.	24200.
SM	10220167.	898352.
AV	13737.	1207.

MONTHLY SUMMARY (APR)

MN	3773.	332.
MX	158952.	13988.
SM	5778080.	508471.
AV	8025.	706.

MONTHLY SUMMARY (MAY)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.



ENTECH ENGINEERING  
READING, PA 19603  
B1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

PAGE 2- 1

HW-BOILE HW-BOILE  
R R  
LOAD ELECTRIC  
USE  
BTU/HR BTU/HR

---- ( 1) ---- ( 3)

MONTHLY SUMMARY (AUG)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (SEP)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (OCT)

MN	0.	0.
MX	147837.	13010.
SM	3145479.	276802.
AV	4228.	372.

MONTHLY SUMMARY (NOV)

MN	3773.	332.
MX	329657.	24200.
SM	9694687.	848323.
AV	13465.	1178.

MONTHLY SUMMARY (DEC)

MN	773.	332.
MX	456781.	24200.
SM	27368952.	2318654.
AV	36786.	3116.

YEARLY SUMMARY

MN	0.	0.
MX	570134.	24200.
SM	115502944.	9826015.
AV	13185.	1122.

ENTECH ENGINEERING  
READING, PA 19603  
AC1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
PAGE 1- 1

MMDH H HERM-CEN HERM-CEN  
T-CHLR T-CHLR  
LOAD ELECTRIC  
USE  
BTU/HR BTU/HR

---- ( 1) ---- ( 3)

MONTHLY SUMMARY (JAN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (FEB)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (MAR)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (APR)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (MAY)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
AC1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
PAGE 2- 1

HERM-CEN      HERM-CEN  
T-CHLR      T-CHLR  
LOAD      ELECTRIC  
USE  
BTU/HR      BTU/HR

----( 1)      ----( 3)

MONTHLY SUMMARY (AUG)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (SEP)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (OCT)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (NOV)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (DEC)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

YEARLY SUMMARY

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
AC2 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

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MMDDHH HERM-CEN T-CHLR  
LOAD ELECTRIC  
USE  
BTU/HR BTU/HR

---- ( 1 ) ---- ( 3 )

MONTHLY SUMMARY (JAN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (FEB)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (MAR)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (APR)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (MAY)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
AC2 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

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HERM-CEN  
T-CHLR  
LOAD  
BTU/HR

HERM-CEN  
T-CHLR  
ELECTRIC  
USE  
BTU/HR

----( 1) ----( 3)

MONTHLY SUMMARY (AUG)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (SEP)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (OCT)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (NOV)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (DEC)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

YEARLY SUMMARY

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
AC3 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

PAGE 1- 1

-----  
MMDDHH HERM-CEN HERM-CEN  
T-CHLR T-CHLR  
LOAD ELECTRIC  
USE  
BTU/HR BTU/HR  
----( 1) ----( 3)

MONTHLY SUMMARY (JAN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (FEB)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (MAR)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (APR)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (MAY)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
AC3 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
PAGE 2- 1

HERM-CEN  
T-CHLR  
LOAD  
BTU/HR

HERM-CEN  
T-CHLR  
ELECTRIC  
USE  
BTU/HR

---- ( 1 )      ---- ( 3 )

MONTHLY SUMMARY (AUG)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (SEP)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (OCT)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (NOV)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (DEC)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

YEARLY SUMMARY

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
AC4 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

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-----  
MMDDHH HERM-CEN HERM-CEN  
T-CHLR T-CHLR  
LOAD ELECTRIC  
USE  
BTU/HR BTU/HR

----( 1) ----( 3)

MONTHLY SUMMARY (JAN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (FEB)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (MAR)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (APR)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (MAY)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.



ENTECH ENGINEERING  
READING, PA 19603  
AC4 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 6/28/1996 9:34:25 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

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HERM-CEN  
T-CHLR  
LOAD  
USE  
BTU/HR

HERM-CEN  
T-CHLR  
ELECTRIC  
USE  
BTU/HR

---- ( 1 )

---- ( 3 )

MONTHLY SUMMARY (AUG)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (SEP)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (OCT)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (NOV)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (DEC)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

YEARLY SUMMARY

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

W/NIGHT SETBACK  
AND VENTILATION CONTROL

ENTECH ENGINEERING READING, PA 19603 SYS - HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC UMCS FEASIBILITY STUDY			DOE-2.1D 12/ 1/1995 13:54: 6 SDL RUN 1 BUILDING 909 - YOUTH ACTIVITY CENTER			PAGE 1- 1
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-2	
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	
	----(47)	----( 5)	----(70)	----(46)	----(47)	----( 5)	----(70)	----(46)	
MONTHLY SUMMARY (JAN)									
MN	0.000	-227084.	0.	0.000	0.000	-161178.	0.	0.000	
MX	0.000	0.	246134.	0.000	0.000	0.	280847.	0.000	
SM	0.000	-11481602.	59332576.	0.000	0.000	-8998053.	71282408.	0.000	
AV	0.000	-15432.	79748.	0.000	0.000	-12094.	95810.	0.000	
MONTHLY SUMMARY (FEB)									
MN	0.000	-211632.	0.	0.000	0.000	-122970.	0.	0.000	
MX	0.000	0.	246134.	0.000	0.000	0.	280847.	0.000	
SM	0.000	-6911490.	49130548.	0.000	0.000	-3166562.	55089592.	0.000	
AV	0.000	-10285.	73111.	0.000	0.000	-4712.	81979.	0.000	
MONTHLY SUMMARY (MAR)									
MN	0.000	-159288.	0.	0.000	0.000	-43306.	0.	0.000	
MX	0.000	0.	231138.	0.000	0.000	0.	258175.	0.000	
SM	0.000	-2684224.	57947084.	0.000	0.000	-379920.	82549184.	0.000	
AV	0.000	-3608.	77886.	0.000	0.000	-511.	110953.	0.000	
MONTHLY SUMMARY (APR)									
MN	0.000	-88569.	0.	0.000	0.000	-25063.	0.	0.000	
MX	0.000	0.	236038.	0.000	0.000	0.	253318.	0.000	
SM	0.000	-346767.	53515928.	0.000	0.000	-636903.	116044760.	0.000	
AV	0.000	-482.	74328.	0.000	0.000	-885.	161173.	0.000	
MONTHLY SUMMARY (MAY)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	13.910	0.	218431.	0.000	16.849	0.	245167.	0.000	
SM	927.929	0.	48570480.	0.000	1485.626	0.	78405720.	0.000	
AV	1.247	0.	65283.	0.000	1.997	0.	105384.	0.000	
MONTHLY SUMMARY (JUN)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	19.554	0.	211444.	0.000	20.709	0.	243451.	0.000	
SM	2611.822	0.	50911996.	0.000	3565.896	0.	85732040.	0.000	
AV	3.628	0.	70711.	0.000	4.953	0.	119072.	0.000	
MONTHLY SUMMARY (JUL)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	18.651	0.	217705.	0.000	20.894	0.	258375.	0.000	
SM	3228.892	0.	47531500.	0.000	4222.454	0.	88710744.	0.000	
AV	4.340	0.	63886.	0.000	5.675	0.	119235.	0.000	

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-2
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW
	---- (47)	---- ( 5)	---- (70)	---- (46)	---- (47)	---- ( 5)	---- (70)	---- (46)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	19.249	0.	214373.	0.000	20.469	0.	244606.	0.000
SM	3552.984	0.	54211560.	0.000	3948.743	0.	81860256.	0.000
AV	4.776	0.	72865.	0.000	5.307	0.	110027.	0.000
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	18.946	0.	210126.	0.000	19.914	0.	244837.	0.000
SM	1959.712	0.	48168944.	0.000	2218.226	0.	68964800.	0.000
AV	2.722	0.	66901.	0.000	3.081	0.	95784.	0.000
MONTHLY SUMMARY (OCT)								
MN	0.000	-76721.	0.	0.000	0.000	-14422.	0.	0.000
MX	12.967	0.	226044.	0.000	13.118	0.	248528.	0.000
SM	528.445	-429958.	46590704.	0.000	784.856	-44662.	58474132.	0.000
AV	0.710	-578.	62622.	0.000	1.055	-60.	78594.	0.000
MONTHLY SUMMARY (NOV)								
MN	0.000	-126632.	0.	0.000	0.000	-77689.	0.	0.000
MX	0.000	0.	248502.	0.000	0.000	0.	255080.	0.000
SM	0.000	-1971097.	51665132.	0.000	0.000	-1128064.	59867528.	0.000
AV	0.000	-2738.	71757.	0.000	0.000	-1567.	83149.	0.000
MONTHLY SUMMARY (DEC)								
MN	0.000	-200320.	0.	0.000	0.000	-124368.	0.	0.000
MX	0.000	0.	236053.	0.000	0.000	0.	269343.	0.000
SM	0.000	-7592266.	54394200.	0.000	0.000	-6844629.	61832320.	0.000
AV	0.000	-10205.	73110.	0.000	0.000	-9200.	83108.	0.000
YEARLY SUMMARY								
MN	0.000	-227084.	0.	0.000	0.000	-161178.	0.	0.000
MX	19.554	0.	248502.	0.000	20.894	0.	280847.	0.000
SM	12809.783	-31417404.	621970688.	0.000	16225.801	-21198792.	908813504.	0.000
AV	1.462	-3586.	71001.	0.000	1.852	-2420.	103746.	0.000

ENTECH ENGINEERING READING, PA 19603 - HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC UMCS FEASIBILITY STUDY			DOB-2.1D 12/ 1/1995 13:54: 6 SDL RUN 1 BUILDING 909 - YOUTH ACTIVITY CENTER			PAGE 1- 2
SYS									
MMDDHH	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4	AHU-4	AHU-4	AHU-4	
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	
	----(47)	----( 5)	----(70)	----(46)	----(47)	----( 5)	----(70)	----(46)	
MONTHLY SUMMARY (JAN)									
MN	0.000	-86663.	0.	0.000	0.000	-86826.	0.	0.000	
MX	0.000	0.	88465.	0.000	0.000	0.	88449.	0.000	
SM	0.000	-5423304.	23271946.	0.000	0.000	-4029553.	22024676.	0.000	
AV	0.000	-7289.	31279.	0.000	0.000	-5416.	29603.	0.000	
MONTHLY SUMMARY (FEB)									
MN	0.000	-81145.	0.	0.000	0.000	-77591.	0.	0.000	
MX	0.000	0.	88465.	0.000	0.000	0.	88449.	0.000	
SM	0.000	-3119560.	18013432.	0.000	0.000	-2190061.	17360596.	0.000	
AV	0.000	-4642.	26806.	0.000	0.000	-3259.	25834.	0.000	
MONTHLY SUMMARY (MAR)									
MN	0.000	-59292.	0.	0.000	0.000	-55098.	0.	0.000	
MX	0.000	0.	81323.	0.000	0.000	0.	81309.	0.000	
SM	0.000	-1026427.	20300152.	0.000	0.000	-554386.	20294518.	0.000	
AV	0.000	-1380.	27285.	0.000	0.000	-745.	27278.	0.000	
MONTHLY SUMMARY (APR)									
MN	0.000	-26062.	0.	0.000	0.000	-22275.	0.	0.000	
MX	0.000	0.	79793.	0.000	0.000	0.	79779.	0.000	
SM	0.000	-134350.	18251786.	0.000	0.000	-35835.	18290916.	0.000	
AV	0.000	-187.	25350.	0.000	0.000	-50.	25404.	0.000	
MONTHLY SUMMARY (MAY)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	4.304	0.	76797.	0.000	4.429	0.	76783.	0.000	
SM	337.560	0.	17240518.	0.000	356.339	0.	17234478.	0.000	
AV	0.454	0.	23173.	0.000	0.479	0.	23165.	0.000	
MONTHLY SUMMARY (JUN)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	6.741	0.	75996.	0.000	6.754	0.	75983.	0.000	
SM	931.616	0.	17960150.	0.000	932.638	0.	17589728.	0.000	
AV	1.294	0.	24945.	0.000	1.295	0.	24430.	0.000	
MONTHLY SUMMARY (JUL)									
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000	
MX	6.792	0.	78247.	0.000	6.770	0.	78233.	0.000	
SM	1147.005	0.	16857612.	0.000	1142.369	0.	16286578.	0.000	
AV	1.542	0.	22658.	0.000	1.535	0.	21891.	0.000	

	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4	AHU-4	AHU-4	AHU-4
	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW	COOLING ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING CAPACITY BTU/HR	HEATING ELECTRIC KW
	----(47)	----( 5)	----(70)	----(46)	----(47)	----( 5)	----(70)	----(46)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	6.661	0.	77049.	0.000	6.675	0.	77036.	0.000
SM	1243.194	0.	18499094.	0.000	1254.314	0.	18518326.	0.000
AV	1.671	0.	24864.	0.000	1.686	0.	24890.	0.000
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	0.	0.000	0.000	0.	0.	0.000
MX	6.488	0.	75523.	0.000	6.498	0.	75509.	0.000
SM	681.458	0.	16825792.	0.000	705.135	0.	16832894.	0.000
AV	0.946	0.	23369.	0.000	0.979	0.	23379.	0.000
MONTHLY SUMMARY (OCT)								
MN	0.000	-30630.	0.	0.000	0.000	-26719.	0.	0.000
MX	4.228	0.	78285.	0.000	4.362	0.	78271.	0.000
SM	194.945	-199803.	16447790.	0.000	210.003	-116466.	16437300.	0.000
AV	0.262	-269.	22107.	0.000	0.282	-157.	22093.	0.000
MONTHLY SUMMARY (NOV)								
MN	0.000	-58884.	0.	0.000	0.000	-51841.	0.	0.000
MX	0.000	0.	82675.	0.000	0.000	0.	82552.	0.000
SM	0.000	-1266579.	17893458.	0.000	0.000	-613145.	17937486.	0.000
AV	0.000	-1759.	24852.	0.000	0.000	-852.	24913.	0.000
MONTHLY SUMMARY (DEC)								
MN	0.000	-74367.	0.	0.000	0.000	-76502.	0.	0.000
MX	0.000	0.	84841.	0.000	0.000	0.	84826.	0.000
SM	0.000	-4081100.	20220812.	0.000	0.000	-2693709.	19258016.	0.000
AV	0.000	-5485.	27179.	0.000	0.000	-3621.	25884.	0.000
YEARLY SUMMARY								
MN	0.000	-86663.	0.	0.000	0.000	-86826.	0.	0.000
MX	6.792	0.	88465.	0.000	6.770	0.	88449.	0.000
SM	4535.778	-15251123.	221782544.	0.000	4600.798	-10233154.	218065504.	0.000
AV	0.518	-1741.	25318.	0.000	0.525	-1168.	24893.	0.000

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PV-A EQUIPMENT SIZES

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST	SIZE	INST
	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL
HW-BOILER	1.100	1 1										
HEM-REC-CHLR	0.100	1 1	0.100	1 1	0.300	1 1	0.400	1 1				

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 UMCS FEASIBILITY STUDY  
 SUMMARY

DOB-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
 BUILDING 909 - YOUTH ACTIVITY CENTER  
 WEATHER FILE- BALTIMORE, MD

S I T E E N E R G Y													* SOURCE
2	3	4	5	6	7	8	9	10	11	12	13	14	
MONTH	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRD ENERGY	WASTED RCVRBL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	36.3	0.0	28.9 8.5E	0.0	0.0	0.0	0.0 0.0E	58.3	4.6 1.3E	0.0	58.3	87.2	145.1
FEB	20.8	0.0	24.7 7.2E	0.0	0.0	0.0	0.0 0.0E	33.7	3.2 0.9E	0.0	33.7	58.5	108.0
MAR	9.9	0.0	29.1 8.5E	0.0	0.0	0.0	0.0 0.0E	16.3	2.4 0.7E	0.0	16.3	45.3	103.6
APR	5.4	0.0	27.8 8.1E	0.0	0.0	0.0	0.0 0.0E	8.8	2.0 0.6E	0.0	8.8	36.6	92.2
MAY	0.0	0.0	35.2 10.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	35.2	105.8
JUN	0.0	0.0	53.4 15.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	53.4	160.5
JUL	0.0	0.0	57.2 16.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	57.2	171.8
AUG	0.0	0.0	61.0 17.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	61.0	183.2
SEP	0.0	0.0	43.3 12.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	43.3	130.1
OCT	3.2	0.0	29.8 8.7E	0.0	0.0	0.0	0.0 0.0E	5.2	1.1 0.3E	0.0	5.2	35.0	94.7
NOV	9.7	0.0	25.1 7.4E	0.0	0.0	0.0	0.0 0.0E	15.8	2.4 0.7E	0.0	15.8	41.0	91.3
DEC	27.2	0.0	27.7 8.1E	0.0	0.0	0.0	0.0 0.0E	43.9	3.9 1.1E	0.0	43.9	71.6	127.1
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	112.5	0.0	443.3 129.8E	0.0	0.0	0.0	0.0 0.0E	182.1	19.6 5.7E	0.0	182.1	625.4	1513.3

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY  
TOTAL ENERGY USE

DOE-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	28.908	58.316
JAN	PEAK (KBTU)	127.515	799.826
	DY/HR	31/11	31/ 7
	TOTAL (MBTU)	24.721	33.729
FEB	PEAK (KBTU)	127.515	670.692
	DY/HR	14/ 8	14/ 7
	TOTAL (MBTU)	29.089	16.254
MAR	PEAK (KBTU)	120.094	463.190
	DY/HR	7/ 8	7/ 7
	TOTAL (MBTU)	27.758	8.837
APR	PEAK (KBTU)	110.591	253.927
	DY/HR	11/ 8	11/ 7
	TOTAL (MBTU)	35.215	0.000
MAY	PEAK (KBTU)	230.088	0.000
	DY/HR	6/16	31/ 1
	TOTAL (MBTU)	53.440	0.000
JUN	PEAK (KBTU)	284.216	0.000
	DY/HR	29/16	30/ 1
	TOTAL (MBTU)	57.216	0.000
JUL	PEAK (KBTU)	282.475	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	61.009	0.000
AUG	PEAK (KBTU)	282.311	0.000
	DY/HR	18/16	31/ 1
	TOTAL (MBTU)	43.320	0.000
SEP	PEAK (KBTU)	278.182	0.000
	DY/HR	1/16	30/ 1
	TOTAL (MBTU)	29.813	5.214
OCT	PEAK (KBTU)	218.029	242.130
	DY/HR	13/16	24/ 7
	TOTAL (MBTU)	25.114	15.837
NOV	PEAK (KBTU)	123.800	512.407
	DY/HR	28/ 8	28/ 7
	TOTAL (MBTU)	27.693	43.916
DEC	PEAK (KBTU)	127.515	663.028
	DY/HR	27/ 9	27/ 7
	ONE YEAR	443.295	182.104
	USE/PEAK	284.216	799.826



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	112.5	100.0
LOAD SATISFIED	112.5	100.0
TOTAL LOAD ON PLANT	112.5	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	443.3	100.0
LOAD SATISFIED	443.3	100.0
TOTAL LOAD ON PLANT	443.3	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	112.5	112.5	0.000	0.000	0
ELECTRICAL LOADS	443.3	443.3	0.000	0.000	0

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
HW-BOILER	0.022	0.575	1 31 7	1.100	4728								
HERM-REC-CHLR	0.000	0.000	0 0 0	0.100	0	0.100	0	0.300	0	0.400	0		

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER  
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

HW-BOILER 43.3

NOMINAL SIZE (MBTU)		1.100
NUMBER INSTALLED		1
FIRST COST (K\$)	37.8	37.8
ANNUAL COST (K\$)	0.9	0.9
CYCLICAL COST (K\$)	4.6	4.6
-----TOTAL----- (K\$)		43.3

HERM-REC-CHLR 38.5

NOMINAL SIZE (MBTU)		0.100	0.100	0.300	0.400
NUMBER INSTALLED		1	1	1	1
FIRST COST (K\$)	32.1	4.9	4.9	10.1	12.3
ANNUAL COST (K\$)	6.4	1.4	1.4	1.7	1.8
CYCLICAL COST (K\$)	0.0	0.0	0.0	0.0	0.0
-----TOTAL----- (K\$)		6.2	6.2	11.9	14.1

EQUIPMENT TOTAL 81.8

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	9.57	182.10
SPACE COOL	130.33	0.00
HVAC AUX	73.32	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	210.31	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	19.75	0.00
	-----	-----
TOTAL	443.29	182.10

TOTAL SITE ENERGY	625.40 MBTU	31.8 KBTU/SQFT-YR GROSS-AREA	31.8 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	1513.32 MBTU	77.0 KBTU/SQFT-YR GROSS-AREA	77.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 10.5  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING  
READING, PA 19603  
B1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOE-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

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-----  
MMDDHH HW-BOILE HW-BOILE  
R R  
LOAD ELECTRIC  
USE  
BTU/HR BTU/HR

---- ( 1) ---- ( 3)

MONTHLY SUMMARY (JAN)

MN	3803.	335.
MX	574691.	24200.
SM	36259208.	3009031.
AV	48735.	4044.

MONTHLY SUMMARY (FEB)

MN	3803.	335.
MX	462636.	24200.
SM	20806412.	1777791.
AV	30962.	2646.

MONTHLY SUMMARY (MAR)

MN	3803.	335.
MX	286547.	24200.
SM	9949702.	874558.
AV	13373.	1175.

MONTHLY SUMMARY (APR)

MN	3803.	335.
MX	155389.	13674.
SM	5407864.	475892.
AV	7511.	661.

MONTHLY SUMMARY (MAY)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUN)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
= HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
UMCS FEASIBILITY STUDY

DOB-2.1D 12/ 1/1995 13:54: 6 PDL RUN 1  
BUILDING 909 - YOUTH ACTIVITY CENTER

PAGE 2- 1

B1

	HW-BOILE	HW-BOILE
	R	R
	LOAD	ELECTRIC
		USE
	BTU/HR	BTU/HR

---- ( 1 )      ---- ( 3 )

MONTHLY SUMMARY (AUG)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (SEP)

MN	0.	0.
MX	0.	0.
SM	0.	0.
AV	0.	0.

MONTHLY SUMMARY (OCT)

MN	0.	0.
MX	148170.	13039.
SM	3190613.	280774.
AV	4288.	377.

MONTHLY SUMMARY (NOV)

MN	3803.	335.
MX	327886.	24200.
SM	9705691.	849447.
AV	13480.	1180.

MONTHLY SUMMARY (DEC)

MN	3803.	335.
MX	456047.	24200.
SM	27151000.	2300532.
AV	36493.	3092.

YEARLY SUMMARY

MN	0.	0.
MX	574691.	24200.
SM	112470488.	9568024.
AV	12839.	1092.

# FT. MEADE, MARYLAND

**Building:** 940

**Square feet** 31,720

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Wood Siding	0.93
Air Space	1.10
Gyp Board	0.56
Inside Surface	0.68
Total R-Value	3.44
Total U-Value	0.29

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
Air Space	1.10
Gyp Board	0.56
Inside Surface	0.61
Total R-Value	3.81
Total U-Value	0.26

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	14
No. of Basement Levels	
Gross Floor Area	31720
Roof Area	32000
Estimated Infiltration (cfm)	5300
Gross Wall Area	16406
Door Area	170
Gross Window Area	170
Other	1000
Net Wall Area	15065

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	1.00
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	1.00
Door Type 3	

$$UoAo = (15065 \times 0.29) + (32000 \times 0.26) + (170 \times 0.5) + (170 \times 1.0) + (1000 \times 1.0) = 13944$$





BUILDING NO. 940

[illegible]

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 940

Case: 1

Description: MORALE SUPPORT OFFICES

Fuel Type: Fuel oil, distillate #2

Heating Value: 138,700 Btu/gal

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	122.338	4,472	0.0	0
Duty Cycling	0.000	1,047	0.0	0
Demand Limiting	0.000	0	0.3	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	122.338	5,519	0.3	4
Heating Value /	138,700 Btu/gal			
Totals	882	5,519	0.3	4
	gal/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Steam Unit Heater

Description: STEAM UNIT HEATERS				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	347.411	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	347.411	0	0.0	4
Heating Value /	138,700 Btu/gal			
Totals	2,505 gal/yr	0 kWh/yr	0.0 kW	4 mh/yr

## EMCS Annual Energy Savings for Building 940

Description	Value	Units
Fuel oil, distillate #2	3,387	gal/yr
Electrical Energy	5,519	kWh/yr
Electrical Demand Reduction	0.3	kW
Labor Savings	8	mh/yr

# FT. MEADE, MARYLAND

Building:      1978      1976      Square feet    43,547      11,724

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Concrete Block	1.72
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.23
Total U-Value	0.24

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.33
1 1/2" Insulation	9.00
Metal Deck	0.00
Air Space	1.10
Acoustical Tile	1.89
Inside Surface	0.61
Total R-Value	13.10
Total U-Value	0.08

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	16
No. of Basement Levels	
Gross Floor Area	55271
Roof Area	55271
Estimated Infiltration (cfm)	5000
Gross Wall Area	19780
Door Area	702
Gross Window Area	334
Other	
Net Wall Area	18744

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (18744 \times 0.24) + (55271 \times 0.08) + (702 \times 1.0) + (334 \times 0.55) = 9806$$

BUILDING NO. 1978, 1976

[illegible]

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE  
 Building: 1978  
 Case: 1  
 Description:

Fuel Type: Natural gas (methane)  
 Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
 It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Terminal Reheat AHU

Description: AHU-3

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.5	0
Day/Night Setback	105.222	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	105.222	0	1.5	4
Heating Value /	1,031 Btu/cf			
Totals	102,059 cf /yr	0 kWh/yr	1.5 kW	4 mh/yr

## Annual Energy Savings Table for Variable Air Volume AHU

Description: AHU-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.5	0
Day/Night Setback	65.764	305	0.0	0
Vent/Recirculation	26.960	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	92.724	305	1.5	4
Heating Value /	1,031 Btu/cf			
Totals	89,936 cf /yr	305 kWh/yr	1.5 kW	4 mh/yr

## Annual Energy Savings Table for Variable Air Volume AHU

Description: AHU-2				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.5	0
Day/Night Setback	115.087	534	0.0	0
Vent/Recirculation	22.812	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	137.899	534	1.5	4
Heating Value /	1,031 Btu/cf			
Totals	133,753 cf /yr	534 kWh/yr	1.5 kW	4 mh/yr

## Annual Energy Savings Table for Steam Unit Heater

Description: 1976 STEAM UNIT HEATERS				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	144.566	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	144.566	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	140,219 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Steam Boiler

Description:				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Totals	0.000	0	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: BOILER-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	75.600	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	75.600	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	73,327 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr



## Annual Energy Savings Table for Steam/Hot Water Converter

Description: CONVERTOR

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	180.851	0	0.0	0
Hot Water OA Reset	150.400	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	331.251	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	321,291 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: DX CONDENSING UNIT

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	3,925	0.0	0
Duty Cycling	0.000	4,655	0.0	0
Demand Limiting	0.000	0	1.5	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	8,580 kWh/yr	1.5 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	199,680	0.0	0
Totals	0.000 MBtu/yr	199,680 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 1978

Description	Value	Units
Natural gas (methane)	860,585	cf /yr
Electrical Energy	209,099	kWh/yr
Electrical Demand Reduction	6.0	kW
Labor Savings	28	mh/yr

# FT. MEADE, MARYLAND

**Building:** 2212

**Square feet** 9,056

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Vinyl Siding	0.61
Wood Siding	0.93
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.05
Total U-Value	0.25

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Insulation	6.00
Wood Deck	0.93
Plaster	0.56
Inside Surface	0.61
Total R-Value	8.71
Total U-Value	0.11

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	10
No. of Basement Levels	
Gross Floor Area	9056
Roof Area	9100
Estimated Infiltration (cfm)	1200
Gross Wall Area	9400
Door Area	130
Gross Window Area	450
Other	
Net Wall Area	8820

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$UoAo = (8820 \times 0.25) + (9100 \times 0.11) + (450 \times 0.6) + (130 \times 0.5) = 3541$$

# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2212

Page 1 of 1

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name		AHU-1	AHU-2	HP-1					
COOLING:									
Type of Cooling		1	1	1					
Air Side		1	1	1					
Location in Building		1/2 Bldg	1/2 Bldg	Exec Off					
Area Sq. Feet		3900	3800	600					
Supply CFM		5000	4200	600					
Supply Fan HP		1 1/2	1 1/2	3/4					
O.A. CFM or %		0%	0%	0%					
Return CFM									
Return Fan HP									
Chiller Tonnage									
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
HEATING:									
Type of Heating									
Source		5	5	5					
MBTUH									
Hot Water Pump HP									
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
		</							

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE	
Building: 2212	
Case: 1	
Description: ADMINISTRATIVE	
-----	
Fuel Type: Electricity	
Heating Value: 3,413	Btu/kWh

## Caution

The ESA program makes no attempt to exclude incompatible strategies.	
It is the user's responsibility to select all appropriate strategies.	

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-1				
=====				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
=====				
Scheduled Start/Stop	0.000	377	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
=====				
Totals	0.000	377	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr
=====				

## Annual Energy Savings Table for Single Zone DX-A/C

Description: HP-1 HEAT PUMP				
=====				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
=====				
Scheduled Start/Stop	6.857	895	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
-----				
Subtotals	6.857	895	0.0	4
Heating Value /	3,413 Btu/kWh			
=====				
Totals	2,009	895	0.0	4
	kWh/yr	kWh/yr	kW	mh/yr
=====				

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-2				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	377	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	377	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Electric Radiation

Description: ELECTRIC FIN TUBE				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	0.000	25,408	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	25,408	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: lighting				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	22,464	0.0	0
Totals	0.000	22,464	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2212

=====		
Description	Value	Units
=====		
Electrical Energy	51,531	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	16	mh/yr
=====		

# FT. MEADE, MARYLAND

**Building:** 2220

**Square feet** 11,520

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Concrete Block	1.72
Inside Surface	0.68
Total R-Value	2.57
Total U-Value	0.39

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.44
Wood Deck	0.93
3 1/2" Batt Insulation	11.00
Air Space	1.10
Gyp Board	0.56
Inside Surface	0.61
Total R-Value	14.81
Total U-Value	0.07

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	16
No. of Basement Levels	
Gross Floor Area	11520
Roof Area	14400
Estimated Infiltration (cfm)	2300
Gross Wall Area	7520
Door Area	300
Gross Window Area	1500
Other	
Net Wall Area	5720

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	1.00
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (5720 \times 0.39) + (14400 \times 0.07) + (300 \times 1.0) + (1500 \times 1.0) = 5038.8$$





BUILDING NO. 2220

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name	Unit Htrs		A/C-1	HV-1	Boiler				
<b>COOLING:</b>									
Type of Cooling			1						
Air Side			1	6					
Location in Building	Shop		Office	Shop					
Area Sq. Feet	5220		2300	4000					
Supply CFM			1200	2000					
Supply Fan HP			1	1 1/2					
O.A. CFM or %			10%	20%					
Return CFM									
Return Fan HP									
Chiller Tonnage									
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
<b>HEATING:</b>									
Type of Heating	2				2				
Source	2				1				
MBTUH					1960/1155				
Hot Water Pump HP									
Condensate Pump HP					1/3				
<b>ADDITIONAL:</b>									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
		<b>Type of Cooling</b>				<b>Type of Heating</b>			
(1) Air Cooled DX		(4) Water Cooled Chiller				(1) Boiler Hot Water			
(2) Water Cooled DX		(5) Central Plant Supplied				(2) Boiler Steam			
(3) Air Cooled Chiller		(6) Other				(3) Steam to Hot Water Converter			
		<b>Air Side</b>				<b>Heating Source</b>			
(1) Single Zone		(4) VAV w/ Reheat				(1) Natural Gas			
(2) Multi-Zone		(5) Constant Volume Reheat				(2) Central Plant Steam			
(3) VAV		(6) Heating and Ventilating				(3) Central Plant Hot Water			

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 2220

Case: 1

Description: REPAIR SHOP AND OFFICE

Fuel Type: Fuel oil, distillate #2

Heating Value: 138,700 Btu/gal

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Single Zone DX-A/C

Description: OFFICE A/C UNIT

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	1,032	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	1,032	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Heating/Ventilating Unit

Description: SHOP WORK OFFICES HV UNIT				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	78.049	0	0.0	0
Vent/Recirculation	7.961	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	86.010	0	0.0	4
Heating Value /	138,700 Btu/gal			
Totals	620	0	0.0	4
	gal/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Steam Unit Heater

Description: SHOP STEAM UNIT HEATERS				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	203.708	0	0.0	0
Subtotals	203.708	0	0.0	0
Heating Value /	138,700 Btu/gal			
Totals	1,469	0	0.0	0
	gal/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: BLDG LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	57,408	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	57,408	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2220

Description	Value	Units
Fuel oil, distillate #2	2,089	gal/yr
Electrical Energy	58,440	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	12	mh/yr

# FT. MEADE, MARYLAND

**Building:** 2234

**Square feet** 25,162

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Concrete Block	1.72
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.33
Wood Deck	0.93
3 1/2" Insulation	11.00
Air Space	1.10
Plaster	0.56
Inside Surface	0.61
Total R-Value	14.70
Total U-Value	0.07

Calculated Total Area	
No. of Floors	2
Avg. Floor to Floor Height	14
No. of Basement Levels	1
Gross Floor Area	25162
Roof Area	8400
Estimated Infiltration (cfm)	3350
Gross Wall Area	14824
Door Area	252
Gross Window Area	1416
Other	
Net Wall Area	13156

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	0.60
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$U_oA_o = (10822 \times 0.21) + (8400 \times 0.07) + (210 \times 0.5) + (1176 \times 0.6) = 3671.2$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2234

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	Boiler	Boiler	Chiller	Fan Coils				
COOLING:			3					
Type of Cooling								
Air Side								
Location in Building		Standby						
Area Sq. Feet								
Supply CFM								
Supply Fan HP				30				
O.A. CFM or %								
Return CFM								
Return Fan HP								
Chiller Tonnage			95					
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP			7 1/2					
HEATING:								
Type of Heating	1	1						
Source	1	1						
MBTUH	2049	650						
Hot Water Pump HP	(3) @ 3/4							
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling			Type of Heating					
(1) Air Cooled DX	(4) Water Cooled Chiller			(1) Boiler Hot Water		(4) Furnace		
(2) Water Cooled DX	(5) Central Plant Supplied			(2) Boiler Steam				
(3) Air Cooled Chiller	(6) Other			(3) Steam to Hot Water Converter				
Air Side			Heating Source					
(1) Single Zone	(4) VAV w/ Reheat			(1) Natural Gas		(4) Oil		
(2) Multi-Zone	(5) Constant Volume Reheat			(2) Central Plant Steam		(5) Electric		
(3) VAV	(6) Heating and Ventilating			(3) Central Plant Hot Water				

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 2234

Case: 1

Description:

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Two Pipe Fan Coil Unit

Description: FAN COILS

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	174.241	1,052	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	174.241	1,052	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	169,002 cf /yr	1,052 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: B-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	163.920	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	163.920	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	158,991	0	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: C-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	3,925	0.0	0
Chiller Water Reset	0.000	5,157	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	9,082	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: Lighting				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	124,800	0.0	0
Totals	0.000	124,800	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr



## EMCS Annual Energy Savings for Building 2234

Description	Value	Units
Natural gas (methane)	327,993	cf /yr
Electrical Energy	134,933	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	12	mh/yr

# FT. MEADE, MARYLAND

**Building:** 2253

**Square feet** 18,912

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Vinyl Siding	0.61
2" Insulation	9.00
Air Space	1.10
Gyp Board	0.56
Inside Surface	0.68
Total R-Value	12.12
Total U-Value	0.08

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood deck	0.93
3 1/2" Batt Insulation	12.00
Inside Surface	0.61
Total R-Value	14.15
Total U-Value	0.07

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	15
No. of Basement Levels	
Gross Floor Area	18912
Roof Area	18912
Estimated Infiltration (cfm)	4700
Gross Wall Area	10650
Door Area	500
Gross Window Area	600
Other	
Net Wall Area	9550

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	1.00
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$AoUo = (9550*0.08) + (18912*0.07) + (500*1.0) + (600*1.0) = 3187$$

**BUILDING NO. 2253**

[illegible]

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 2253

Case: 1

Description: VEHICLE MAINTENANCE SHOP

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Direct Fired Furnace

Description: GAS FURNACE

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	185.241	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	185.241	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	179,671 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	34,944	0.0	0
Totals	0.000 MBtu/yr	34,944 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 2253

Description	Value	Units
Natural gas (methane)	179,671	cf /yr
Electrical Energy	34,944	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	4	mh/yr

# FT. MEADE, MARYLAND

Building: 2257

Square feet 51,712

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Concrete Block	1.72
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Calculated Total Area	
No. of Floors	3
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	51712
Roof Area	13000
Estimated Infiltration (cfm)	4655
Gross Wall Area	27770
Door Area	380
Gross Window Area	3400
Other	
Net Wall Area	23990

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
Air Space	1.10
Insulation 1" Rigid	6.00
Plaster	0.56
Inside Surface	0.68
Total R-Value	9.88
Total U-Value	0.10

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$U_oA_o = (23990 \times 0.21) + (13000 \times 0.1) + (380 \times 0.5) + (3400 \times 0.6) = 8567.9$$

# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2257

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
<b>Equipment Name</b>	<b>Boiler#1</b>	<b>Boiler#2</b>	<b>AHU-1</b>	<b>AHU-2</b>	<b>Chiller</b>	<b>Fan Coils</b>		
<b>COOLING:</b>								
Type of Cooling								
Air Side								
Location in Building								
Area Sq. Feet								
Supply CFM								
Supply Fan HP								
O.A. CFM or %								
Return CFM								
Return Fan HP								
Chiller Tonnage								
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP								
<b>HEATING:</b>								
Type of Heating								
Source								
MBTUH								
Hot Water Pump HP								
Condensate Pump HP								
<b>ADDITIONAL:</b>								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
<b>Type of Cooling</b>								
(1) Air Cooled DX								
(2) Water Cooled DX								
(3) Air Cooled Chiller								
<b>Air Side</b>								
(1) Single Zone								
(2) Multi-Zone								
(3) VAV								
<b>Type of Heating</b>								
(1) Boiler Hot Water								
(2) Boiler Steam								
(3) Steam to Hot Water Converter								
<b>Heating Source</b>								
(1) Natural Gas								
(2) Central Plant Steam								
(3) Central Plant Hot Water								
(4) Oil								
(5) Electric								

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2257
Case: 1
Description: ADMINISTRATIVE
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031      Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-1 100% OUTDOOR AIR UNIT
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	978.820	22,029	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	978.820	22,029	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	949,389 cf /yr	22,029 kWh/yr	0.0 kW	4 mh/yr



## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-2 BSMNT COURT ROOM				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	68.826	2,365	0.0	0
Vent/Recirculation	7.777	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	76.603	2,365	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	74,300	2,365	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Two Pipe Fan Coil Unit

Description: FAN COILS				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	307.939	1,858	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	307.939	1,858	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	298,680	1,858	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: BOILER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	140.000	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	140.000	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	135,790	0	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: AIR COOLED CHILLER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	1,472	0.0	0
Chiller Water Reset	0.000	4,343	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	5,815	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	124,800	0.0	0
Totals	0.000	124,800	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2257

Description	Value	Units
Natural gas (methane)	1,458,158	cf /yr
Electrical Energy	156,867	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	20	mh/yr

# FT. MEADE, MARYLAND

**Building:** 2282

**Square feet** 22,796

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Concrete Block	1.72
Inside Surface	0.68
Total R-Value	2.57
Total U-Value	0.39

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.33
1 1/2" Insulation	6.00
Metal Deck	0.00
Air Space	1.10
Acoustical Tile Clg	1.89
Inside Surface	0.61
Total R-Value	10.10
Total U-Value	0.10

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	22796
Roof Area	15970
Estimated Infiltration (cfm)	1500
Gross Wall Area	11064
Door Area	374
Gross Window Area	377
Other	
Net Wall Area	10313

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (10313 \times 0.39) + (15970 \times 0.1) + (374 \times 1.0) + (377 \times 0.6) = 6219.3$$

BUILDING NO. 2282

[illegible]

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 2282

Case: 1

Description:

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Four Pipe Fan Coil Unit

Description: Fan Coil Units

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	143.146	921	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	143.146	921	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	138,842 cf /yr	921 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: B-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	15.000	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	15.000	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	14,549	0	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: C-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	5,233	0.0	0
Chiller Water Reset	0.000	2,280	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	7,513	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	47,840	0.0	0
Totals	0.000	47,840	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2282

Description	Value	Units
Natural gas (methane)	153,391	cf /yr
Electrical Energy	56,274	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	12	mh/yr



# FT. MEADE, MARYLAND

**Building:** 2481

**Square feet** 17,436

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Air Space	1.10
Concrete Block	1.72
Inside Surface	0.68
Total R-Value	4.11
Total U-Value	0.24

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.33
1 1/2" Insulation	9.00
Concrete Deck	0.50
Plaster	0.56
Inside Surface	0.61
Total R-Value	11.17
Total U-Value	0.09

Calculated Total Area	
No. of Floors	2
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	17436
Roof Area	8822
Estimated Infiltration (cfm)	1600
Gross Wall Area	11472
Door Area	126
Gross Window Area	776
Other	
Net Wall Area	10570

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$UoAo = (10570 \times 0.24) + (8822 \times 0.09) + (126 \times 0.5) + (776 \times 0.6) = 3859.4$$



BUILDING NO. 2481

[illegible]

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE  
 Building: 2481  
 Case: 1

## Description:

Fuel Type: Fuel oil, distillate #2  
 Heating Value: 138,690 Btu/gal

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
 It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Multi-zone DX-A/C

## Description: AHU

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot/Cold Deck Reset	380.573	22,581	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	380.573	22,581	0.0	4
Heating Value /	138,690 Btu/gal			
Totals	2,744 gal/yr	22,581 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Steam/Hot Water Converter

Description: Heat Exchanger				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	127.385	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	127.385	0	0.0	4
Heating Value /	138,690 Btu/gal			
Totals	918	0	0.0	4
	gal/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: DX CONDENSING UNIT				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Duty Cycling	0.000	39,102	0.0	0
Demand Limiting	0.000	0	4.5	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	39,102	4.5	4
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2481

Description	Value	Units
Fuel oil, distillate #2	3,663	gal/yr
Electrical Energy	61,684	kWh/yr
Electrical Demand Reduction	4.5	kW
Labor Savings	12	mh/yr

# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2482

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	Boiler	Boiler	Boiler					
COOLING:								
Type of Cooling								
Air Side								
Location in Building								
Area Sq. Feet								
Supply CFM								
Supply Fan HP								
O.A. CFM or %								
Return CFM								
Return Fan HP								
Chiller Tonnage								
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP								
HEATING:								
Type of Heating								
Source	2	2	2					
	4	4	4					
MBTUH	13388.8	13388.8	13388.8					
Hot Water Pump HP								
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling			Type of Heating					
(1) Air Cooled DX						(1) Boiler Hot Water		
(2) Water Cooled DX						(2) Boiler Steam		
(3) Air Cooled Chiller						(3) Steam to Hot Water Converter		
Air Side			Heating Source					
(1) Single Zone						(1) Natural Gas		
(2) Multi-Zone						(2) Central Plant Steam		
(3) VAV						(3) Central Plant Hot Water		
						(4) Oil		
						(5) Electric		

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2482
Case: 1
Description: STEAM BOILER PLANT
-----
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Steam Boiler

```

=====
Description: HP STEAM BOILERS
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Steam Boiler Selection    556.150      0          0.0   0
Run Time Recording        0.000        0          0.0   2
Safety Alarm              0.000        0          0.0   2
-----
Subtotals                 556.150      0          0.0   4
Heating Value /          138,700 Btu/gal
=====
Totals                    4,010        0          0.0   4
                        gal/yr      kWh/yr      kW   mh/yr
=====

```

## EMCS Annual Energy Savings for Building 2482

```

=====
Description                Value      Units
=====
Fuel oil, distillate #2      4,010     gal/yr
Electrical Energy            0         kWh/yr
Electrical Demand Reduction  0.0       kW
Labor Savings                4         mh/yr
=====

```

# FT. MEADE, MARYLAND

**Building:** 2484

**Square feet** 18,185

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Metal Siding	0.00
3 1/2" insulation	11.00
Inside Surface	0.68
Total R-Value	11.85
Total U-Value	0.08

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Metal Roof	0.00
3 1/2" insulation	11.00
Inside Surface	0.61
Total R-Value	11.78
Total U-Value	0.08

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	24
No. of Basement Levels	
Gross Floor Area	18185
Roof Area	18200
Estimated Infiltration (cfm)	4400
Gross Wall Area	13360
Door Area	260
Gross Window Area	100
Other	
Net Wall Area	13000

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (13000 \times 0.08) + (18200 \times 0.08) + (260 \times 1.0) + (100 \times 0.55) = 2811$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2484

Page 1 of 1

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name	A/C-1	A/C-2	Unit Htrs						
COOLING:									
Type of Cooling	1	1							
Air Side	1	1							
Location in Building	1st Fir Office	Mezz Office	Warehouse						
Area Sq. Feet	2100	2100	13985						
Supply CFM	2000	2400							
Supply Fan HP	1	1							
O.A. CFM or %	0%	20%							
Return CFM									
Return Fan HP									
Chiller Tonnage	2 1/2	5							
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
HEATING:									
Type of Heating	2	2	2						
Source	2	2	2						
MBTUH									
Hot Water Pump HP									
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling				Type of Heating					
(1) Air Cooled DX				(1) Boiler Hot Water					
(2) Water Cooled DX				(2) Boiler Steam					
(3) Air Cooled Chiller				(3) Steam to Hot Water Converter					



## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2484
Case: 1
Description: MEDICAL WAREHOUSE
=====

```

```

=====
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: MEZZANINE SPLIT-SYSTEM UNIT
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	22.368	136	0.0	0
Vent/Recirculation	4.444	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
-----				
Subtotals	26.812	136	0.0	4
Heating Value /	138,700 Btu/gal			
=====				
Totals	193	136	0.0	4
	gal/yr	kWh/yr	kW	mh/yr
=====				

## Annual Energy Savings Table for Single Zone DX-A/C

Description: MAIN LEVEL OFFICE SPLIT-SYSTEM				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	22.368	136	0.0	0
Vent/Recirculation	3.703	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	26.072	136	0.0	4
Heating Value /	138,700 Btu/gal			
Totals	188	136	0.0	4
	gal/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Steam Unit Heater

Description: steam unit heaters				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	297.925	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	297.925	0	0.0	4
Heating Value /	138,700 Btu/gal			
Totals	2,148	0	0.0	4
	gal/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: BLDG LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	62,400	0.0	0
Totals	0.000	62,400	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2484

Description	Value	Units
Fuel oil, distillate #2	2,529	gal/yr
Electrical Energy	62,671	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	12	mh/yr

# FT. MEADE, MARYLAND

**Building:** 2490

**Square feet** 34,144

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Air Space	1.10
Concrete Block	1.72
Inside Surface	0.68
Total R-Value	4.11
Total U-Value	0.24

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.33
1" Insulation	6.00
Concrete Deck	1.08
Air Space	1.10
Acoustical Tile Clg	1.89
Inside Surface	0.61
Total R-Value	11.18
Total U-Value	0.09

Calculated Total Area	
No. of Floors	3
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	34144
Roof Area	9656
Estimated Infiltration (cfm)	2000
Gross Wall Area	15530
Door Area	
Gross Window Area	600
Other	
Net Wall Area	14930

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	0.60
Door Type 2	
Door Type 3	

$$UoAo = (14930 \times 0.24) + (9656 \times 0.09) + (600 \times 0.55) = 4782$$

# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2490

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	Chiller	Chiller	Clg Twr	AHU-1	AHU-2	AHU-3	S-W Conv	
COOLING:								
Type of Cooling	4	4		4	4	4		
Air Side				5	5	5		
Location in Building				Gen. Lab	Hood Make-up	Animals		
Area Sq. Feet				27984		6160		
Supply CFM				26715	6470	4150		
Supply Fan HP				15	15	5		
O.A. CFM or %				100%	100%	100%		
Return CFM								
Return Fan HP								
Chiller Tonnage	135	135	270					
Tower or Condenser Fan HP			15					
Condenser Pump HP								
Chilled Water Pump HP	10	10	(2) 15					
HEATING:								
Type of Heating							3	
Source							2	
MBTUH							2800	
Hot Water Pump HP							(2) 7 1/2	
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling			Type of Heating					
(1) Air Cooled DX				(1) Boiler Hot Water			(4) Furnace	
(2) Water Cooled DX				(2) Boiler Steam				
(3) Air Cooled Chiller				(3) Steam to Hot Water Converter				
Air Side			Heating Source					
(1) Single Zone				(1) Natural Gas			(4) Oil	
(2) Multi-Zone				(2) Central Plant Steam			(5) Electric	
(3) VAV				(3) Central Plant Hot Water				

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 2490

Case: 1

Description: LABORATORY

Fuel Type: Fuel oil, distillate #2

Heating Value: 138,700 Btu/gal

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Terminal Reheat AHU

Description: AHU-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Reheat Coil Reset	1,024.830	25,594	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	1,024.830	25,594	0.0	4
Heating Value /	138,700 Btu/gal			
Totals	7,389 gal/yr	25,594 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Water Cooled Chiller

Description: CENTRIFUGAL CHILLER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Chiller Water Reset	0.000	11,181	0.0	0
Condenser Water Reset	0.000	2,651	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	13,832	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2490

Description	Value	Units
Fuel oil, distillate #2	7,389	gal/yr
Electrical Energy	39,426	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	8	mh/yr

**UMCS FEASIBILITY STUDY  
FORT MEADE  
BUILDING 2490 - LABORATORY  
DOE ENERGY SAVINGS SUMMARY**

	Space Heat		Space Cool	HVAC Aux	Lights	Misc Equip	TOTAL		TOTAL	
	Electricity mmBtu	Fuel-Oil mmBtu					Electricity mmBtu	Natural Gas mmBtu	Electricity Kwh	Fuel-Oil Gallons
Existing	295.9	8,251.0	644.9	1,194.5	890.9	286.0	3,312.1	8,251.0	970,448	59,488
New w/Vent/Recirc	201.2	4,508.4	655.1	1,184.7	890.9	286.0	3,217.9	4,508.4	942,839	32,505
Vent/Recirc Savings							94.2	3,742.6	27,609	26,984
							0.0	0.0	0	0
							0.0	0.0	0	0
							0.0	0.0	0	0
							0.0	0.0	0	0



ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D 1/26/1996 11:24:37 SDL RUN 1  
 READING, PA 19603      FT. GEORGE G. MEADE      BUILDING 2490 - EXISTING CONDITIONS  
 SH-1      = HOURLY-REPORT      PAGE 1- 1

MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-3	AHU-3							
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT PREH ENERGY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR							
----	( 5).	----	( 6)	----	(49)	----	(70)	----	(78)	----	(10)	----	( 5)	----	( 6)
MONTHLY SUMMARY (JAN)															
MN	0.	0.	25.884	911142.	0.	-1822246.	0.	0.							
MX	0.	0.	25.884	911142.	0.	0.	0.	0.							
SM	0.	0.	19257.922	677889728.	0.	-670314048.	0.	0.							
AV	0.	0.	25.884	911142.	0.	-900960.	0.	0.							
MONTHLY SUMMARY (FEB)															
MN	0.	0.	25.884	911142.	0.	-1846708.	0.	0.							
MX	0.	0.	25.884	911142.	0.	0.	0.	0.							
SM	0.	0.	17394.254	612287552.	0.	-516797408.	0.	0.							
AV	0.	0.	25.884	911142.	0.	-769044.	0.	0.							
MONTHLY SUMMARY (MAR)															
MN	0.	0.	25.884	911142.	0.	-1227478.	0.	0.							
MX	0.	0.	25.884	1037806.	0.	0.	0.	0.							
SM	0.	0.	19257.922	678529664.	0.	-365551328.	0.	0.							
AV	0.	0.	25.884	912002.	0.	-491332.	0.	0.							
MONTHLY SUMMARY (APR)															
MN	0.	0.	25.884	911142.	0.	-1001237.	0.	0.							
MX	0.	0.	25.884	1394832.	0.	0.	0.	71981.							
SM	0.	0.	18636.699	662835904.	0.	-168527568.	0.	452991.							
AV	0.	0.	25.884	920605.	0.	-234066.	0.	629.							
MONTHLY SUMMARY (MAY)															
MN	0.	0.	25.884	911142.	0.	-751561.	0.	0.							
MX	0.	223135.	25.884	1728923.	0.	0.	0.	99678.							
SM	0.	2423871.	19257.922	742160256.	0.	-51228700.	-1.	3716183.							
AV	0.	3258.	25.884	997527.	0.	-68856.	0.	4995.							
MONTHLY SUMMARY (JUN)															
MN	0.	0.	25.884	911142.	0.	-112071.	0.	0.							
MX	0.	1506098.	25.884	2846064.	0.	0.	0.	296275.							
SM	0.	98212672.	18636.699	1007200704.	0.	-483906.	-1.	37219956.							
AV	0.	136406.	25.884	1398890.	0.	-672.	0.	51694.							
MONTHLY SUMMARY (JUL)															
MN	0.	0.	25.884	911142.	0.	0.	0.	0.							
MX	0.	1930822.	25.884	3241252.	0.	0.	0.	349664.							
SM	0.	225146528.	19257.922	1313815936.	0.	0.	0.	66818768.							
AV	0.	302616.	25.884	1765882.	0.	0.	0.	89810.							

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-3	AHU-3
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT PREH ENERGY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR
	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- (10)	---- ( 5)	---- ( 6)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	25.884	911142.	0.	-74265.	0.	0.
MX	0.	1860134.	25.884	2928645.	0.	0.	0.	307650.
SM	0.	263893344.	19257.922	1206385408.	0.	-148386.	0.	56514432.
AV	0.	354695.	25.884	1621486.	0.	-199.	0.	75960.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	25.884	911142.	0.	-336175.	0.	0.
MX	0.	1723166.	25.884	2758919.	0.	0.	0.	275601.
SM	0.	136040096.	18636.699	921730368.	0.	-8105397.	-1.	27743118.
AV	0.	188945.	25.884	1280181.	0.	-11257.	0.	38532.
MONTHLY SUMMARY (OCT)								
MN	0.	0.	25.884	911142.	0.	-867333.	0.	0.
MX	0.	425118.	25.884	1490384.	0.	0.	0.	40776.
SM	0.	4112859.	19257.922	704424768.	0.	-94577544.	-3.	178261.
AV	0.	5528.	25.884	946808.	0.	-127120.	0.	240.
MONTHLY SUMMARY (NOV)								
MN	0.	0.	25.884	911142.	0.	-1017944.	0.	0.
MX	0.	0.	25.884	2168328.	0.	0.	0.	0.
SM	0.	0.	18636.699	691415360.	0.	-286449856.	0.	0.
AV	0.	0.	25.884	960299.	0.	-397847.	0.	0.
MONTHLY SUMMARY (DEC)								
MN	0.	0.	25.884	911142.	0.	-1487819.	0.	0.
MX	0.	0.	25.884	911142.	0.	0.	0.	0.
SM	0.	0.	19257.922	677889728.	0.	-554310016.	0.	0.
AV	0.	0.	25.884	911142.	0.	-745040.	0.	0.
YEARLY SUMMARY								
MN	0.	0.	25.884	911142.	0.	-1846708.	0.	0.
MX	0.	1930822.	25.884	3241252.	0.	0.	0.	349664.
SM	0.	729829312.	226746.516	9896566784.	0.	-2716494336.	-6.	192643712.
AV	0.	83314.	25.884	1129745.	0.	-310102.	0.	21991.

ENTECH ENGINEERING  
READING, PA 19603  
SH-1 = HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

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BUILDING 2490 - EXISTING CONDITIONS  
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MMDDHH	AHU-3	AHU-3	AHU-3	AHU-3
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT PREH ENERGY BTU/HR
----	(49)	(70)	(78)	(10)
MONTHLY SUMMARY (JAN)				
MN	3.565	128031.	0.	-250947.
MX	3.565	128031.	0.	0.
SM	2652.062	95255248.	0.	-92310880.
AV	3.565	128031.	0.	-124074.
MONTHLY SUMMARY (FEB)				
MN	3.565	128031.	0.	-254316.
MX	3.565	128031.	0.	0.
SM	2395.411	86036992.	0.	-71169672.
AV	3.565	128031.	0.	-105907.
MONTHLY SUMMARY (MAR)				
MN	3.565	128031.	0.	-169040.
MX	3.565	145830.	0.	0.
SM	2652.062	95345160.	0.	-50341124.
AV	3.565	128152.	0.	-67663.
MONTHLY SUMMARY (APR)				
MN	3.565	128031.	0.	-137883.
MX	3.565	195998.	0.	0.
SM	2566.511	93139928.	0.	-23208404.
AV	3.565	129361.	0.	-32234.
MONTHLY SUMMARY (MAY)				
MN	3.565	128031.	0.	-103500.
MX	3.565	242944.	0.	0.
SM	2652.062	104286376.	0.	-7054840.
AV	3.565	140170.	0.	-9482.
MONTHLY SUMMARY (JUN)				
MN	3.565	128031.	0.	-15433.
MX	3.565	399921.	0.	0.
SM	2566.511	141529072.	0.	-66639.
AV	3.565	196568.	0.	-93.
MONTHLY SUMMARY (JUL)				
MN	3.565	128031.	0.	0.
MX	3.565	455452.	0.	0.
SM	2652.062	184613840.	0.	0.
AV	3.565	248137.	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
SH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 1/26/1996 11:24:37 SDL RUN 1  
BUILDING 2490 - EXISTING CONDITIONS

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	AHU-3	AHU-3	AHU-3	AHU-3
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT PREH ENERGY BTU/HR
	----(49)	----(70)	----(78)	----(10)
MONTHLY SUMMARY (AUG)				
MN	3.565	128031.	0.	-10227.
MX	3.565	411525.	0.	0.
SM	2652.062	169517984.	0.	-20435.
AV	3.565	227847.	0.	-27.
MONTHLY SUMMARY (SEP)				
MN	3.565	128031.	0.	-46296.
MX	3.565	387676.	0.	0.
SM	2566.511	129519072.	0.	-1116213.
AV	3.565	179888.	0.	-1550.
MONTHLY SUMMARY (OCT)				
MN	3.565	128031.	0.	-119443.
MX	3.565	209425.	0.	0.
SM	2652.062	98983904.	0.	-13024533.
AV	3.565	133043.	0.	-17506.
MONTHLY SUMMARY (NOV)				
MN	3.565	128031.	0.	-140184.
MX	3.565	304688.	0.	0.
SM	2566.511	97155824.	0.	-39447824.
AV	3.565	134939.	0.	-54789.
MONTHLY SUMMARY (DEC)				
MN	3.565	128031.	0.	-204892.
MX	3.565	128031.	0.	0.
SM	2652.062	95255248.	0.	-76335640.
AV	3.565	128031.	0.	-102602.
YEARLY SUMMARY				
MN	3.565	128031.	0.	-254316.
MX	3.565	455452.	0.	0.
SM	31225.893	1390638720.	0.	-374096160.
AV	3.565	158749.	0.	-42705.

MESSAGE LIST FROM PLANT      PROGRAM

\*\*CAUTION\*\*\*\*\*  
TOWER WILL BE DEFINED FOR CHILLERS THAT NEED IT

DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1  
BUILDING 2490 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

[illegible]

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1  
BUILDING 2490 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

S I T E E N E R G Y													* SOURCE
MONTH	2 TOTAL HEAT LOAD	3 TOTAL COOLING LOAD	4 TOTAL ELECTR LOAD	5 RCVRED ENERGY	6 WASTED RCVRED ENERGY	7 FUEL INPUT COOLING	8 ELEC INPUT COOLING	9 FUEL INPUT HEATING	10 ELEC INPUT HEATING	11 FUEL INPUT ELECT	12 TOTAL FUEL INPUT	13 TOTAL SITE ENERGY	14 TOTAL SOURCE ENERGY
JAN	1177.1	34.0	277.2 81.2E	0.0	0.0	0.0	50.6 14.8E	1608.2	53.5 15.7E	0.0	1608.2	1885.4	2619.4
FEB	957.2	30.7	249.7 73.1E	0.0	0.0	0.0	45.7 13.4E	1326.2	47.5 13.9E	0.0	1326.2	1575.9	2223.3
MAR	760.1	34.0	280.1 82.0E	0.0	0.0	0.0	50.8 14.9E	1102.4	48.2 14.1E	0.0	1102.4	1382.5	2066.0
APR	451.9	33.3	258.5 75.7E	0.0	0.0	0.0	50.5 14.8E	689.0	37.8 11.1E	0.0	689.0	947.5	1541.9
MAY	193.3	40.1	254.8 74.6E	0.0	0.0	0.0	59.0 17.3E	305.0	22.7 6.6E	0.0	305.0	559.8	1104.0
JUN	61.9	168.3	280.3 82.1E	0.0	0.0	0.0	93.0 27.2E	101.2	13.0 3.8E	0.0	101.2	381.5	954.1
JUL	27.2	325.9	310.4 90.9E	0.0	0.0	0.0	131.1 38.4E	44.4	10.2 3.0E	0.0	44.4	354.8	981.4
AUG	49.1	354.4	327.7 96.0E	0.0	0.0	0.0	134.4 39.4E	80.3	12.1 3.5E	0.0	80.3	408.0	1073.3
SEP	73.3	196.6	279.0 81.7E	0.0	0.0	0.0	94.8 27.8E	119.6	13.9 4.1E	0.0	119.6	398.6	970.8
OCT	313.5	38.2	256.3 75.1E	0.0	0.0	0.0	56.5 16.5E	488.5	30.7 9.0E	0.0	488.5	744.8	1312.5
NOV	637.7	32.9	261.0 76.4E	0.0	0.0	0.0	50.1 14.7E	943.3	44.6 13.1E	0.0	943.3	1204.3	1831.9
DEC	1030.6	34.0	277.1 81.2E	0.0	0.0	0.0	50.7 14.9E	1442.6	53.2 15.6E	0.0	1442.6	1719.7	2435.0
*****	5733.0	1322.3	3312.1 970.0E	0.0	0.0	0.0	867.1 254.0E	8250.8	387.2 113.4E	0.0	8250.8	11562.8	19113.6

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE  
MONTHLY PEAK AND TOTAL ENERGY USE

DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1  
BUILDING 2490 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	FUEL-OIL
	TOTAL (MBTU)	277.197	1608.244
JAN	PEAK (KBTU)	569.958	3483.716
	DY/HR	31/19	31/ 1
	TOTAL (MBTU)	249.675	1326.190
FEB	PEAK (KBTU)	569.958	3539.580
	DY/HR	25/19	3/ 6
	TOTAL (MBTU)	280.119	1102.361
MAR	PEAK (KBTU)	569.958	2717.482
	DY/HR	31/19	5/ 4
	TOTAL (MBTU)	258.546	688.972
APR	PEAK (KBTU)	569.958	2390.740
	DY/HR	29/ 8	9/ 8
	TOTAL (MBTU)	254.772	305.029
MAY	PEAK (KBTU)	610.770	1983.135
	DY/HR	20/17	10/ 5
	TOTAL (MBTU)	280.270	101.220
JUN	PEAK (KBTU)	920.714	1150.280
	DY/HR	10/16	1/ 3
	TOTAL (MBTU)	310.371	44.435
JUL	PEAK (KBTU)	1033.307	809.574
	DY/HR	25/14	21/ 5
	TOTAL (MBTU)	327.696	80.272
AUG	PEAK (KBTU)	1004.658	1162.017
	DY/HR	31/15	22/ 4
	TOTAL (MBTU)	279.034	119.605
SEP	PEAK (KBTU)	957.896	1316.920
	DY/HR	2/14	30/ 6
	TOTAL (MBTU)	256.323	488.512
OCT	PEAK (KBTU)	630.783	2131.650
	DY/HR	13/16	28/ 6
	TOTAL (MBTU)	260.969	943.349
NOV	PEAK (KBTU)	569.958	2366.032
	DY/HR	30/19	9/ 6
	TOTAL (MBTU)	277.082	1442.592
DEC	PEAK (KBTU)	569.958	3023.045
	DY/HR	30/19	22/ 5
	ONE YEAR	3312.054	8250.782
	USE/PEAK	1033.307	3539.580



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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BUILDING 2490 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	5732.8	100.0
	-----	-----
LOAD SATISFIED	5732.8	100.0
TOTAL LOAD ON PLANT	5732.8	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
OPEN-CENT-CHLR	1322.4	100.0
	-----	-----
LOAD SATISFIED	1322.4	100.0
TOTAL LOAD ON PLANT	1322.4	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	3312.1	100.0
	-----	-----
LOAD SATISFIED	3312.1	100.0
TOTAL LOAD ON PLANT	3312.0	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 9 HOURS  
MAXIMUM TOWER EXIT TEMPERATURE = 86.F

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

DOB-2.1D 1/26/1996 11:24:37 PDL RUN 1  
BUILDING 2490 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	5732.8	5732.8	0.000	0.000	0
COOLING LOADS	1322.4	1322.4	0.000	0.000	0
ELECTRICAL LOADS	3312.0	3312.1	0.000	0.000	0

ENTRCH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1  
BUILDING 2490 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.231	2.832	2 3 6	2.832 8760				
OPEN-CENT-CHLR	0.093	2.326	7 25 14	1.600 8844				
COOLING-TWR	0.060	2.743	7 25 14	1.291 21185				

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1  
BUILDING 2490 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

HW-BOILER	98.3		
NOMINAL SIZE (MBTU)		2.832	
NUMBER INSTALLED		1	
FIRST COST (K\$)	71.2	71.2	
ANNUAL COST (K\$)	1.1	1.1	
CYCLICAL COST (K\$)	26.0	26.0	
-----TOTAL----- (K\$)		98.3	
OPEN-CENT-CHLR	138.0		
NOMINAL SIZE (MBTU)		1.600	
NUMBER INSTALLED		2	
FIRST COST (K\$)	93.3	93.3	
ANNUAL COST (K\$)	15.2	15.2	
CYCLICAL COST (K\$)	29.5	29.5	
-----TOTAL----- (K\$)		138.0	
COOLING-TWR	266.8		
NOMINAL SIZE (MBTU)		1.291	
NUMBER INSTALLED		3	
FIRST COST (K\$)	52.5	52.5	
ANNUAL COST (K\$)	104.6	104.6	
CYCLICAL COST (K\$)	109.6	109.6	
-----TOTAL----- (K\$)		266.8	
EQUIPMENT TOTAL	503.1		

ENTTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOB-2.1D   1/26/1996   11:24:37   PDL RUN 1  
 READING, PA   19603   FT. GEORGE G. MEADE   BUILDING 2490 - EXISTING CONDITIONS  
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE      WEATHER FILE- BALTIMORE, MD

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ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	295.85	8251.03
SPACE COOL	644.86	0.00
HVAC AUX	1194.52	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	890.93	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	285.98	0.00
	-----	-----
TOTAL	3312.14	8251.03

TOTAL SITE ENERGY	11562.84 MBTU	325.7 KBTU/SQFT-YR GROSS-AREA	325.7 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	19113.64 MBTU	538.4 KBTU/SQFT-YR GROSS-AREA	538.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

W/VENT + RECIRC

ENTECH ENGINEERING READING, PA 19603 PH-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 1/26/1996 11:24:37 PDL RUN 1 BUILDING 2490 - EXISTING CONDITIONS		PAGE 1- 1
MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR TOWER LOAD BTU/HR	OPEN-CEN T-CHLR CONDENSER FAN ELEC BTU/HR	
	----( 1 )	----( 3 )	----( 4 )	----( 1 )	----( 3 )	----( 5 )	----(18)	
MONTHLY SUMMARY (JAN)								
MN	409245.	36014.	668764.	45639.	20367.	63969.	0.	
MX	2778430.	62297.	3483716.	45639.	20367.	63969.	0.	
SM	1177080704.	45700760.	1608244480.	33955288.	15153048.	47593048.	0.	
AV	1582098.	61426.	2161619.	45639.	20367.	63969.	0.	
MONTHLY SUMMARY (FEB)								
MN	72096.	6344.	117815.	45639.	20367.	63969.	0.	
MX	2831664.	62297.	3539580.	45639.	20367.	63969.	0.	
SM	957218240.	40451064.	1326188672.	30669294.	13686624.	42987268.	0.	
AV	1424432.	60195.	1973495.	45639.	20367.	63969.	0.	
MONTHLY SUMMARY (MAR)								
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.	
MX	2066465.	62297.	2717482.	45639.	20739.	64304.	0.	
SM	760058624.	40396520.	1102359936.	33955288.	15153420.	47593384.	0.	
AV	1021584.	54296.	1481667.	45639.	20368.	63970.	0.	
MONTHLY SUMMARY (APR)								
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.	
MX	1772491.	62297.	2390740.	117620.	54403.	166583.	0.	
SM	451919232.	30258668.	688971648.	33312950.	14885350.	46709776.	0.	
AV	627666.	42026.	956905.	46268.	20674.	64875.	0.	
MONTHLY SUMMARY (MAY)								
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.	
MX	1413163.	62297.	1983135.	353016.	87828.	432062.	0.	
SM	193289152.	14910120.	305029888.	40095348.	17477772.	55825348.	0.	
AV	259797.	20040.	409986.	53892.	23492.	75034.	0.	
MONTHLY SUMMARY (JUN)								
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.	
MX	703906.	61944.	1150280.	1845382.	350658.	2158441.	0.	
SM	61941148.	5450820.	101220496.	168292576.	43861156.	207767632.	0.	
AV	86029.	7571.	140584.	233740.	60918.	288566.	0.	
MONTHLY SUMMARY (JUL)								
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.	
MX	495413.	43596.	809574.	2326125.	463250.	2743050.	0.	
SM	27191824.	2392880.	44435236.	325920608.	74860312.	393294848.	0.	
AV	36548.	3216.	59725.	438065.	100619.	528622.	0.	

	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR TOWER LOAD BTU/HR	OPEN-CEN T-CHLR CONDENSER FAN ELEC BTU/HR
	---- ( 1 )	---- ( 3 )	---- ( 4 )	---- ( 1 )	---- ( 3 )	---- ( 5 )	---- (18)
MONTHLY SUMMARY (AUG)							
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.
MX	712249.	62297.	1162017.	2213422.	434601.	2604563.	0.
SM	49122924.	4322436.	80271840.	354363040.	76715880.	423407360.	0.
AV	66025.	5810.	107892.	476294.	103113.	569096.	0.
MONTHLY SUMMARY (SEP)							
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.
MX	842256.	62297.	1316920.	2042567.	387840.	2391623.	0.
SM	73332584.	6407327.	119605408.	196643168.	47278832.	239194160.	0.
AV	101851.	8899.	166119.	273116.	65665.	332214.	0.
MONTHLY SUMMARY (OCT)							
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.
MX	1543167.	62297.	2131650.	511533.	107204.	608016.	0.
SM	313510112.	22968548.	488511936.	38246412.	16410418.	53015800.	0.
AV	421385.	30872.	656602.	51406.	22057.	71258.	0.
MONTHLY SUMMARY (NOV)							
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.
MX	1750481.	62297.	2366032.	45639.	23318.	66625.	0.
SM	637707264.	37133480.	943348800.	32859958.	14753118.	46137780.	0.
AV	885705.	51574.	1310207.	45639.	20490.	64080.	0.
MONTHLY SUMMARY (DEC)							
MN	120827.	10633.	197448.	45639.	20367.	63969.	0.
MX	2346450.	62297.	3023045.	45639.	20367.	63969.	0.
SM	1030591552.	45449528.	1442592384.	33955288.	15153048.	47593048.	0.
AV	1385204.	61088.	1938968.	45639.	20367.	63969.	0.
YEARLY SUMMARY							
MN	18741.	1649.	30625.	45639.	20367.	63969.	0.
MX	2831664.	62297.	3539580.	2326125.	463250.	2743050.	0.
SM	5732963328.	295842144.	8250781184.	1322269184.	365388992.	1651119360.	0.
AV	654448.	33772.	941870.	150944.	41711.	188484.	0.

ENTECH ENGINEERING  
READING, PA 19603  
SH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 1/26/1996 10:45:25 SDL RUN 1  
BUILDING 2490 - NEW CONDITIONS

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MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-3	AHU-3
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT PREH ENERGY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR
	---- ( 5 )	---- ( 6 )	---- (49)	---- (70)	---- (78)	---- (10)	---- ( 5 )	---- ( 6 )
MONTHLY SUMMARY (JAN)								
MN	-3805.	0.	25.884	818023.	0.	-1822246.	0.	0.
MX	0.	0.	25.884	818023.	0.	0.	0.	0.
SM	-118469.	0.	19257.922	608609600.	0.	-229892544.	0.	0.
AV	-159.	0.	25.884	818024.	0.	-308995.	0.	0.
MONTHLY SUMMARY (FEB)								
MN	-4421.	0.	25.884	818023.	0.	-1846708.	0.	0.
MX	0.	0.	25.884	818023.	0.	0.	0.	0.
SM	-118254.	0.	17394.254	549711872.	0.	-157601296.	0.	0.
AV	-176.	0.	25.884	818024.	0.	-234526.	0.	0.
MONTHLY SUMMARY (MAR)								
MN	-11735.	0.	25.884	818023.	0.	-1142222.	0.	0.
MX	0.	0.	25.884	1017039.	0.	0.	0.	0.
SM	-173222.	0.	19257.922	609498432.	0.	-111306144.	0.	0.
AV	-233.	0.	25.884	819218.	0.	-149605.	0.	0.
MONTHLY SUMMARY (APR)								
MN	-20061.	0.	25.884	818023.	0.	-1001214.	0.	0.
MX	0.	0.	25.884	1252280.	0.	0.	0.	71981.
SM	-420189.	0.	18636.699	597961152.	0.	-46799436.	0.	452991.
AV	-584.	0.	25.884	830502.	0.	-64999.	0.	629.
MONTHLY SUMMARY (MAY)								
MN	-11318.	0.	25.884	818023.	0.	-700012.	0.	0.
MX	0.	347743.	25.884	1628808.	0.	0.	0.	99678.
SM	-1119894.	6460370.	19257.922	696699392.	0.	-15195893.	-1.	3716183.
AV	-1505.	8683.	25.884	936424.	0.	-20425.	0.	4995.
MONTHLY SUMMARY (JUN)								
MN	-16779.	0.	25.884	818023.	0.	-72716.	0.	0.
MX	0.	1484142.	25.884	2555196.	0.	0.	0.	296275.
SM	-825419.	122634264.	18636.699	942513216.	0.	-72716.	-1.	37219956.
AV	-1146.	170325.	25.884	1309046.	0.	-101.	0.	51694.
MONTHLY SUMMARY (JUL)								
MN	-7408.	0.	25.884	818023.	0.	0.	0.	0.
MX	0.	1866665.	25.884	2796499.	0.	0.	0.	349664.
SM	-142129.	229301056.	19257.922	1158264192.	0.	0.	0.	66818768.
AV	-191.	308200.	25.884	1556807.	0.	0.	0.	89810.



ENTECH ENGINEERING  
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EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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BUILDING 2490 - NEW CONDITIONS

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	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-3	AHU-3
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT PREH ENERGY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR
	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- (10)	---- ( 5)	---- ( 6)
MONTHLY SUMMARY (AUG)								
MN	-5316.	0.	25.884	818023.	0.	0.	0.	0.
MX	0.	1829112.	25.884	2629337.	0.	0.	0.	307650.
SM	-155772.	268427968.	19257.922	1078595200.	0.	0.	0.	56514432.
AV	-209.	360790.	25.884	1449725.	0.	0.	0.	75960.
MONTHLY SUMMARY (SEP)								
MN	-9633.	0.	25.884	818023.	0.	-336175.	0.	0.
MX	0.	1643724.	25.884	2476958.	0.	0.	0.	275601.
SM	-573029.	143682720.	18636.699	823260608.	0.	-2183881.	-1.	27743118.
AV	-796.	199559.	25.884	1143418.	0.	-3033.	0.	38532.
MONTHLY SUMMARY (OCT)								
MN	-16921.	0.	25.884	818023.	0.	-867333.	0.	0.
MX	0.	633490.	25.884	1338067.	0.	0.	0.	40776.
SM	-759861.	14288077.	19257.922	640390976.	0.	-19483860.	-3.	178261.
AV	-1021.	19204.	25.884	860741.	0.	-26188.	0.	240.
MONTHLY SUMMARY (NOV)								
MN	-9475.	0.	25.884	818023.	0.	-1008452.	0.	0.
MX	0.	0.	25.884	1946725.	0.	0.	0.	0.
SM	-188957.	0.	18636.699	627310400.	0.	-84520880.	0.	0.
AV	-262.	0.	25.884	871264.	0.	-117390.	0.	0.
MONTHLY SUMMARY (DEC)								
MN	-2780.	0.	25.884	818023.	0.	-1483344.	0.	0.
MX	0.	0.	25.884	860439.	0.	0.	0.	0.
SM	-123011.	0.	19257.922	608720896.	0.	-180630016.	0.	0.
AV	-165.	0.	25.884	818173.	0.	-242782.	0.	0.
YEARLY SUMMARY								
MN	-20061.	0.	25.884	818023.	0.	-1846708.	0.	0.
MX	0.	1866665.	25.884	2796499.	0.	0.	0.	349664.
SM	-4718207.	784794432.	226746.516	8941536256.	0.	-847686656.	-6.	192643712.
AV	-539.	89588.	25.884	1020723.	0.	-96768.	0.	21991.

MMDDHH	AHU-3	AHU-3	AHU-3	AHU-3
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT PREH ENERGY BTU/HR
	---- (49)	---- (70)	---- (78)	---- (10)
MONTHLY SUMMARY (JAN)				
MN	3.565	128031.	0.	-250947.
MX	3.565	128031.	0.	0.
SM	2652.062	95255248.	0.	-92310880.
AV	3.565	128031.	0.	-124074.
MONTHLY SUMMARY (FEB)				
MN	3.565	128031.	0.	-254316.
MX	3.565	128031.	0.	0.
SM	2395.411	86036992.	0.	-71169672.
AV	3.565	128031.	0.	-105907.
MONTHLY SUMMARY (MAR)				
MN	3.565	128031.	0.	-169040.
MX	3.565	145830.	0.	0.
SM	2652.062	95345160.	0.	-50341124.
AV	3.565	128152.	0.	-67663.
MONTHLY SUMMARY (APR)				
MN	3.565	128031.	0.	-137883.
MX	3.565	195998.	0.	0.
SM	2566.511	93139928.	0.	-23208404.
AV	3.565	129361.	0.	-32234.
MONTHLY SUMMARY (MAY)				
MN	3.565	128031.	0.	-103500.
MX	3.565	242944.	0.	0.
SM	2652.062	104286376.	0.	-7054840.
AV	3.565	140170.	0.	-9482.
MONTHLY SUMMARY (JUN)				
MN	3.565	128031.	0.	-15433.
MX	3.565	399921.	0.	0.
SM	2566.511	141529072.	0.	-66639.
AV	3.565	196568.	0.	-93.
MONTHLY SUMMARY (JUL)				
MN	3.565	128031.	0.	0.
MX	3.565	455452.	0.	0.
SM	2652.062	184613840.	0.	0.
AV	3.565	248137.	0.	0.

ENTECH ENGINEERING  
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	AHU-3	AHU-3	AHU-3	AHU-3
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT PREH ENERGY BTU/HR
	---- (49)	---- (70)	---- (78)	---- (10)
MONTHLY SUMMARY (AUG)				
MN	3.565	128031.	0.	-10227.
MX	3.565	411525.	0.	0.
SM	2652.062	169517984.	0.	-20435.
AV	3.565	227847.	0.	-27.
MONTHLY SUMMARY (SEP)				
MN	3.565	128031.	0.	-46296.
MX	3.565	387676.	0.	0.
SM	2566.511	129519072.	0.	-1116213.
AV	3.565	179888.	0.	-1550.
MONTHLY SUMMARY (OCT)				
MN	3.565	128031.	0.	-119443.
MX	3.565	209425.	0.	0.
SM	2652.062	98983904.	0.	-13024533.
AV	3.565	133043.	0.	-17506.
MONTHLY SUMMARY (NOV)				
MN	3.565	128031.	0.	-140184.
MX	3.565	304688.	0.	0.
SM	2566.511	97155824.	0.	-39447824.
AV	3.565	134939.	0.	-54789.
MONTHLY SUMMARY (DEC)				
MN	3.565	128031.	0.	-204892.
MX	3.565	128031.	0.	0.
SM	2652.062	95255248.	0.	-76335640.
AV	3.565	128031.	0.	-102602.
YEARLY SUMMARY				
MN	3.565	128031.	0.	-254316.
MX	3.565	455452.	0.	0.
SM	31225.893	1390638720.	0.	-374096160.
AV	3.565	158749.	0.	-42705.

MESSAGE LIST FROM PLANT PROGRAM

\*\*CAUTION\*\*\*\*\*  
TOWER WILL BE DEFINED FOR CHILLERS THAT NEED IT

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BUILDING 2490 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

[illegible]

MONTH	S I T E E N E R G Y												14
	2	3	4	5	6	7	8	9	10	11	12	13	
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRED ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	660.1	33.0	268.9 78.8E	0.0	0.0	0.0	49.6 14.5E	974.7	46.1 13.5E	0.0	974.7	1243.6	1890.6
FEB	520.1	29.8	241.0 70.6E	0.0	0.0	0.0	44.8 13.1E	781.1	39.6 11.6E	0.0	781.1	1022.1	1591.5
MAR	403.6	33.0	267.8 78.4E	0.0	0.0	0.0	49.8 14.6E	627.5	36.8 10.8E	0.0	627.5	895.4	1501.6
APR	211.0	32.4	243.7 71.4E	0.0	0.0	0.0	49.6 14.5E	335.0	23.9 7.0E	0.0	335.0	578.7	1104.1
MAY	79.9	43.2	246.0 72.1E	0.0	0.0	0.0	58.7 17.2E	128.8	14.2 4.1E	0.0	128.8	374.9	882.0
JUN	19.3	191.8	280.7 82.2E	0.0	0.0	0.0	97.4 28.5E	31.6	8.9 2.6E	0.0	31.6	312.2	877.9
JUL	13.6	329.1	309.5 90.6E	0.0	0.0	0.0	131.7 38.6E	22.3	8.7 2.5E	0.0	22.3	331.8	954.2
AUG	17.1	357.9	325.4 95.3E	0.0	0.0	0.0	135.2 39.6E	28.0	9.0 2.6E	0.0	28.0	353.4	1008.3
SEP	22.8	203.4	276.2 80.9E	0.0	0.0	0.0	96.7 28.3E	37.3	9.2 2.7E	0.0	37.3	313.4	870.7
OCT	118.4	47.5	244.8 71.7E	0.0	0.0	0.0	58.5 17.1E	190.1	17.2 5.0E	0.0	190.1	434.9	946.5
NOV	319.2	31.9	246.7 72.2E	0.0	0.0	0.0	49.1 14.4E	500.9	31.3 9.2E	0.0	500.9	747.6	1297.4
DEC	562.3	33.0	267.1 78.2E	0.0	0.0	0.0	49.8 14.6E	851.1	44.1 12.9E	0.0	851.1	1118.2	1747.6
-----	2947.5	1366.0	3217.8 942.4E	0.0	0.0	0.0	871.1 255.1E	4508.4	289.0 84.7E	0.0	4508.4	7726.1	14672.3

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

MO	UTILITY-	ELECTRICITY	FUEL-OIL
	TOTAL (MBTU)	268.923	974.679
JAN	PEAK (KBTU)	565.814	3361.637
	DY/HR	31/19	31/ 7
	TOTAL (MBTU)	240.953	781.102
FEB	PEAK (KBTU)	565.814	3400.547
	DY/HR	25/19	3/ 7
	TOTAL (MBTU)	267.848	627.545
MAR	PEAK (KBTU)	565.814	2454.148
	DY/HR	31/19	4/ 7
	TOTAL (MBTU)	243.734	334.964
APR	PEAK (KBTU)	565.814	2202.541
	DY/HR	29/ 8	8/ 7
	TOTAL (MBTU)	246.020	128.848
MAY	PEAK (KBTU)	628.185	1762.971
	DY/HR	26/17	10/ 7
	TOTAL (MBTU)	280.680	31.550
JUN	PEAK (KBTU)	917.475	771.073
	DY/HR	10/16	22/ 7
	TOTAL (MBTU)	309.492	22.276
JUL	PEAK (KBTU)	1017.740	109.737
	DY/HR	25/14	21/ 8
	TOTAL (MBTU)	325.402	28.002
AUG	PEAK (KBTU)	996.506	657.214
	DY/HR	31/15	25/ 7
	TOTAL (MBTU)	276.169	37.253
SEP	PEAK (KBTU)	944.906	1134.212
	DY/HR	2/12	30/ 7
	TOTAL (MBTU)	244.833	190.101
OCT	PEAK (KBTU)	657.322	1963.598
	DY/HR	13/16	28/ 7
	TOTAL (MBTU)	246.681	500.931
NOV	PEAK (KBTU)	565.814	2219.146
	DY/HR	30/19	23/ 7
	TOTAL (MBTU)	267.052	851.103
DEC	PEAK (KBTU)	565.814	2866.880
	DY/HR	30/19	21/ 7
	ONE YEAR	3217.787	4508.354
	USE/PEAK	1017.740	3400.547

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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BUILDING 2490 - NEW CONDITIONS  
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HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	2947.7	100.0
	=====	=====
LOAD SATISFIED	2947.7	100.0
TOTAL LOAD ON PLANT	2947.7	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
OPEN-CENT-CHLR	1366.1	100.0
	=====	=====
LOAD SATISFIED	1366.1	100.0
TOTAL LOAD ON PLANT	1366.1	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	3217.8	100.0
	=====	=====
LOAD SATISFIED	3217.8	100.0
TOTAL LOAD ON PLANT	3217.8	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 4 HOURS  
MAXIMUM TOWER EXIT TEMPERATURE = 86.F



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

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BUILDING 2490 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2947.7	2947.7	0.000	0.000	0
COOLING LOADS	1366.1	1366.1	0.000	0.000	0
ELECTRICAL LOADS	3217.8	3217.8	0.000	0.000	0

ENTECH ENGINEERING  
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REPORT- PS-H EQUIPMENT USE STATISTICS

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WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.124	2.720	2 3 7	2.720 8760				
OPEN-CENT-CHLR	0.097	2.261	7 25 14	1.600 8840				
COOLING-TWR	0.062	2.665	7 25 14	1.291 21287				

E Q U I P M E N T T O T A L S

HW-BOILER	95.9		
NOMINAL SIZE (MBTU)		2.720	
NUMBER INSTALLED		1	
FIRST COST (K\$)	69.4	69.4	
ANNUAL COST (K\$)	1.1	1.1	
CYCLICAL COST (K\$)	25.5	25.5	
-----TOTAL----- (K\$)		95.9	
OPEN-CENT-CHLR	138.0		
NOMINAL SIZE (MBTU)		1.600	
NUMBER INSTALLED		2	
FIRST COST (K\$)	93.3	93.3	
ANNUAL COST (K\$)	15.2	15.2	
CYCLICAL COST (K\$)	29.5	29.5	
-----TOTAL----- (K\$)		138.0	
COOLING-TWR	267.2		
NOMINAL SIZE (MBTU)		1.291	
NUMBER INSTALLED		3	
FIRST COST (K\$)	52.5	52.5	
ANNUAL COST (K\$)	104.6	104.6	
CYCLICAL COST (K\$)	110.1	110.1	
-----TOTAL----- (K\$)		267.2	
EQUIPMENT TOTAL	501.2		

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	201.24	4508.40
SPACE COOL	655.11	0.00
HVAC AUX	1184.65	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	890.93	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	285.98	0.00
	-----	-----
TOTAL	3217.90	4508.40

TOTAL SITE ENERGY 7726.14 MBTU 217.6 KBTU/SQFT-YR GROSS-AREA 217.6 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY 14672.31 MBTU 413.3 KBTU/SQFT-YR GROSS-AREA 413.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.1  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	OPEN-CEN T-CHLR LOAD BTU/HR	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR	OPEN-CEN T-CHLR TOWER LOAD BTU/HR	OPEN-CEN T-CHLR CONDENSER FAN ELEC BTU/HR
	----( 1)	----( 3)	----( 4)	----( 1)	----( 3)	----( 5)	----(18)
MONTHLY SUMMARY (JAN)							
MN	138519.	12190.	226359.	44355.	19794.	62169.	0.
MX	2683342.	59850.	3361637.	44355.	19794.	62169.	0.
SM	660081664.	38690272.	974679040.	33000010.	14726738.	46254104.	0.
AV	887207.	52003.	1310053.	44355.	19794.	62169.	0.
MONTHLY SUMMARY (FEB)							
MN	68286.	6009.	111588.	44355.	19794.	62169.	0.
MX	2720438.	59850.	3400547.	44355.	19794.	62169.	0.
SM	520061312.	32870258.	781102784.	29806462.	13301570.	41777900.	0.
AV	773901.	48914.	1162355.	44355.	19794.	62169.	0.
MONTHLY SUMMARY (MAR)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	1843754.	59850.	2454148.	44355.	20156.	62495.	0.
SM	403602976.	29388986.	627545600.	33000010.	14727100.	46254432.	0.
AV	542477.	39501.	843475.	44355.	19794.	62170.	0.
MONTHLY SUMMARY (APR)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	1619041.	59850.	2202541.	116336.	53807.	164762.	0.
SM	211038896.	16670551.	334964096.	32388486.	14472435.	45413704.	0.
AV	293110.	23154.	465228.	44984.	20101.	63075.	0.
MONTHLY SUMMARY (MAY)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	1234099.	59850.	1762971.	491776.	107279.	588327.	0.
SM	79880432.	6699001.	128847272.	43176564.	17591790.	59009200.	0.
AV	107366.	9004.	173182.	58033.	23645.	79313.	0.
MONTHLY SUMMARY (JUN)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	471852.	41523.	771073.	1822143.	348607.	2131598.	0.
SM	19307008.	1699017.	31550346.	191789744.	47886880.	234887936.	0.
AV	26815.	2360.	43820.	266375.	66510.	326233.	0.
MONTHLY SUMMARY (JUL)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	67153.	5909.	109737.	2260683.	448872.	2664668.	0.
SM	13631887.	1199606.	22276414.	329119904.	75790704.	397331424.	0.
AV	18322.	1612.	29941.	442365.	101869.	534048.	0.

	HW-BOILE R LOAD BTU/HR ---- ( 1 )	HW-BOILE R ELECTRIC USE BTU/HR ---- ( 3 )	HW-BOILE R FUEL USE BTU/HR ---- ( 4 )	OPEN-CEN T-CHLR LOAD BTU/HR ---- ( 1 )	OPEN-CEN T-CHLR ELECTRIC USE BTU/HR ---- ( 3 )	OPEN-CEN T-CHLR TOWER LOAD BTU/HR ---- ( 5 )	OPEN-CEN T-CHLR CONDENSER FAN ELEC BTU/HR ---- (18)
MONTHLY SUMMARY (AUG)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	402177.	35392.	657214.	2181116.	427638.	2565991.	0.
SM	17135510.	1507925.	28001820.	357942432.	77757688.	427924384.	0.
AV	23032.	2027.	37637.	481105.	104513.	575167.	0.
MONTHLY SUMMARY (SEP)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	699194.	59850.	1134212.	1961841.	376038.	2297469.	0.
SM	22805064.	2004054.	37252756.	203361312.	49159604.	247605008.	0.
AV	31674.	2783.	51740.	282446.	68277.	343896.	0.
MONTHLY SUMMARY (OCT)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	1408621.	59850.	1963598.	718620.	131709.	837159.	0.
SM	118433264.	9756237.	190100960.	47466348.	18418558.	64043072.	0.
AV	159185.	13113.	255512.	63799.	24756.	86079.	0.
MONTHLY SUMMARY (NOV)							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	1633770.	59850.	2219146.	44355.	22662.	64751.	0.
SM	319214144.	24071954.	500931040.	31935494.	14338060.	44839776.	0.
AV	443353.	33433.	695738.	44355.	19914.	62277.	0.
MONTHLY SUMMARY (DEC)							
MN	106545.	9376.	174110.	44355.	19794.	62169.	0.
MX	2219723.	59850.	2866880.	44355.	19794.	62169.	0.
SM	562339328.	36683128.	851103040.	33000010.	14726738.	46254104.	0.
AV	755832.	49305.	1143956.	44355.	19794.	62169.	0.
YEARLY SUMMARY							
MN	18005.	1584.	29422.	44355.	19794.	62169.	0.
MX	2720438.	59850.	3400547.	2260683.	448872.	2664668.	0.
SM	2947531520.	201240992.	4508355584.	1365986816.	372897888.	1701595008.	0.
AV	336476.	22973.	514652.	155935.	42568.	194246.	0.

**ATTACHMENT SECTION 8.2B**

**BUILDINGS 2501 TO 3000**

# FT. MEADE, MARYLAND

Building: 2501

Square feet 14,754

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Vinyl Siding	0.61
1" Insulation	6.00
Wood Siding	0.93
Air Space	1.10
Gyp. Board	0.56
Inside Surface	0.68
Total R-Value	10.05
Total U-Value	0.10

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Asphalt Shingles	0.44
Wood	0.93
3-1/2" Batt Insulation	11.00
Gyp. Board	0.56
Air Space	1.10
Acoustical Tile Ceiling	1.89
Inside Surface	0.61
Total R-Value	16.70
Total U-Value	0.06

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	12
No. of Basement Levels	0
Gross Floor Area	14754
Roof Area	14754
Estimated Infiltration (cfm)	2000
Gross Wall Area	8340
Door Area	211
Gross Window Area	544
Other	
Net Wall Area	7585

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$AoUo = (7585 \cdot 0.1) + (14754 \cdot 0.06) + (211 \cdot 1.0) + (544 \cdot 0.6) = 2181$$





## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2501
Case: 1
Description:
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031      Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AC-1

```

=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Scheduled Start/Stop    0.000        365         0.0    0
Optimum Start/Stop      0.000         0           0.0    0
Duty Cycling            0.000        349         0.0    0
Demand Limiting         0.000         0           0.0746000  0
Run Time Recording      0.000         0           0.0    2
Safety Alarm            0.000         0           0.0    2
=====
Totals                  0.000        715         0.0746000  4
                        MBtu/yr      kWh/yr      kW   mh/yr
=====

```

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AC-2

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	343	0.0	0
Optimum Start/Stop	0.000	0	0.0	0
Duty Cycling	0.000	349	0.0	0
Demand Limiting	0.000	0	0.0746000	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	692	0.0746000	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AC-3

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	340	0.0	0
Optimum Start/Stop	0.000	0	0.0	0
Duty Cycling	0.000	349	0.0	0
Demand Limiting	0.000	0	0.0746000	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	689	0.0746000	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AC-4

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	1,133	0.0	0
Optimum Start/Stop	0.000	0	0.0	0
Duty Cycling	0.000	1,047	0.0	0
Demand Limiting	0.000	0	0.2	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	2,181	0.2	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Direct Fired Furnace

Description: F-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	19.357	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	19.357	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	18,775	0	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Direct Fired Furnace

Description: F-2				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	39.245	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	39.245	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	38,065	0	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: Lighting				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	37,440	0.0	0
Run Time Recording	0.000	0	0.0	0
Safety Alarm	0.000	0	0.0	0
Totals	0.000	37,440	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2501

Description	Value	Units
Natural gas (methane)	56,841	cf /yr
Electrical Energy	41,716	kWh/yr
Electrical Demand Reduction	0.4	kW
Labor Savings	24	mh/yr

# FT. MEADE, MARYLAND

**Building:** 2786

**Square feet** 118,000

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Concrete Block	1.72
1" Rigid Insulation	6.00
Gyp Board	0.56
Inside Surface	0.68
Total R-Value	<b>9.57</b>
Total U-Value	<b>0.10</b>

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.33
Metal Deck	0.00
2" Rigid Insulation	12.00
Air Space	1.11
Acoustical Tile Clg	1.89
Inside Surface	0.61
Total R-Value	<b>16.11</b>
Total U-Value	<b>0.06</b>

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	20
No. of Basement Levels	
Gross Floor Area	118000
Roof Area	108300
Estimated Infiltration (cfm)	10800
Gross Wall Area	29400
Door Area	1150
Gross Window Area	1600
Other	
Net Wall Area	26650

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2786

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	AHU-1	AHU-2	AHU-3	Boiler				
COOLING:								
Type of Cooling	1	1						
Air Side	1	1	1					
Location in Building	Store	Offices	Warehouse					
Area Sq. Feet	26000	8600	20000					
Supply CFM	30	15	20					
Supply Fan HP	5200	1720	0-100%					
O.A. CFM or %								
Return CFM								
Return Fan HP								
Chiller Tonnage	110	25						
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP								
HEATING:								
Type of Heating				1				
Source				1				
MBTUH				3875/3100				
Hot Water Pump HP				7 1/2				
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling				Type of Heating				
(1) Air Cooled DX	(4) Water Cooled Chiller			(1) Boiler Hot Water				
(2) Water Cooled DX	(5) Central Plant Supplied			(2) Boiler Steam				
(3) Air Cooled Chiller	(6) Other			(3) Steam to Hot Water Converter				
Air Side				Heating Source				
(1) Single Zone	(4) VAV w/ Reheat			(1) Natural Gas				
(2) Multi-Zone	(5) Constant Volume Reheat			(2) Central Plant Steam				
(3) VAV	(6) Heating and Ventilating			(3) Central Plant Hot Water				
				(4) Oil				
				(5) Electric				

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 2786
Case: 1
Description:
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Hot Water Boiler

```

=====
Description: BOILER
=====
Strategy          MBtu/yr      kWh/yr      kW   mh/yr
=====
Hot Water OA Reset    290.625        0        0.0    0
-----
Subtotals            290.625        0        0.0    0
Heating Value /      1,031 Btu/cf
=====
Totals              281,887        0        0.0    0
                   cf /yr      kWh/yr      kW   mh/yr
=====

```

## EMCS Annual Energy Savings for Building 2786

```

=====
Description          Value          Units
=====
Natural gas (methane)  281,887      cf /yr
Electrical Energy      0            kWh/yr
Electrical Demand Reduction  0.0          kW
Labor Savings          0            mh/yr
=====

```



**UMCS FEASIBILITY STUDY  
FORT MEADE  
BUILDING 2786 - COMMISSARY  
DOE ENERGY SAVINGS SUMMARY**

	Space Heat		Space Cool		HVAC Aux		Lights		Misc Equip		TOTAL		TOTAL	
	Electricity mmBtu	Natural Gas mmBtu	Electricity mmBtu		Electricity mmBtu		Electricity mmBtu		Electricity mmBtu		Electricity mmBtu	Natural Gas mmBtu	Electricity Kwh	Natural Gas MCF
Existing	214.3	4,223.5	617.1		1,667.2		2,481.2		842.0		5,821.8	4,223.5	1,705,772	4,096.5
New w/Vent/Recirc	183.9	3,508.4	627.3		1,667.2		2,481.2		842.0		5,801.5	3,508.4	1,699,827	3,402.9
Vent/Recirc Savings											20.3	715.1	5,945	693.5
New w/Night Setback and Vent/Recirc	172.2	3,386.9	562.6		1,142.6		2,481.2		842.0		5,200.5	3,386.9	1,523,745	3,285.1
Night Setback Savings											601.0	121.5	176,083	117.9
New w/Night Setback & Vent/Recirc & Economizer	172.2	3,386.6	555.0		1,142.6		2,481.2		842.0		5,192.9	3,386.6	1,521,509	3,284.8
Economizer Savings											7.6	0.3	2,236	0.3

ENTECH ENGINEERING READING, PA 19603 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC PT. GEORGE G. MEADE			DOB-2.1D 12/28/1995 BUILDING 2786 - COMMISSARY		14:45:54 SDL RUN 1
SH-1			PAGE 1- 1					
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	SUPPLY ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- ( 5)	---- (47)	---- (70)	---- (78)	---- (49)	---- ( 5)	---- (47)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	-883899.	0.000	1402355.	-1251263.	19.612	-175680.	0.000	4.171
MX	0.	0.000	1807260.	-1251263.	19.612	0.	0.000	4.171
SM	-246215776.	0.000	1197676800.	-930940288.	14591.033	-43375312.	0.000	3103.449
AV	-330935.	0.000	1609781.	-1251264.	19.612	-58300.	0.000	4.171
MONTHLY SUMMARY (FEB)								
MN	-932286.	0.000	1381671.	-1251263.	19.612	-174240.	0.000	4.171
MX	0.	0.000	1807260.	-1251263.	19.612	0.	0.000	4.171
SM	-201640272.	0.000	1062581504.	-840849280.	13178.997	-35704256.	0.000	2803.115
AV	-300060.	0.000	1581223.	-1251264.	19.612	-53131.	0.000	4.171
MONTHLY SUMMARY (MAR)								
MN	-715932.	0.000	1294808.	-1251263.	19.612	-134134.	0.000	4.171
MX	0.	0.000	1677148.	-1251263.	19.612	0.	0.000	4.171
SM	-109003552.	0.000	1132495360.	-930940288.	14591.033	-17013740.	0.000	3103.449
AV	-146510.	0.000	1522171.	-1251264.	19.612	-22868.	0.000	4.171
MONTHLY SUMMARY (APR)								
MN	-512554.	0.000	1307878.	-1251263.	19.612	-99007.	0.000	4.171
MX	0.	0.000	1630112.	-1251263.	19.612	0.	0.000	4.171
SM	-31545044.	0.000	1055626048.	-900909952.	14120.354	-4167160.	0.000	3003.337
AV	-43813.	0.000	1466147.	-1251264.	19.612	-5788.	0.000	4.171
MONTHLY SUMMARY (MAY)								
MN	0.	0.000	1218618.	0.	19.612	0.	0.000	4.171
MX	0.	72.685	1576448.	0.	19.612	0.	15.826	4.171
SM	0.	11985.001	1044280064.	0.	14591.033	0.	2996.708	3103.449
AV	0.	16.109	1403602.	0.	19.612	0.	4.028	4.171
MONTHLY SUMMARY (JUN)								
MN	0.	0.000	1212441.	0.	19.612	0.	0.000	4.171
MX	0.	125.893	1500214.	0.	19.612	0.	26.827	4.171
SM	0.	29732.756	989371648.	0.	14120.354	0.	6885.199	3003.337
AV	0.	41.295	1374127.	0.	19.612	0.	9.563	4.171
MONTHLY SUMMARY (JUL)								
MN	0.	0.000	1237306.	0.	19.612	0.	0.000	4.171
MX	0.	129.395	1509379.	0.	19.612	0.	27.624	4.171
SM	0.	39339.457	1030672448.	0.	14591.033	0.	8909.229	3103.449
AV	0.	52.876	1385312.	0.	19.612	0.	11.975	4.171

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	SUPPLY ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- ( 5 )	---- (47)	---- (70)	---- (78)	---- (49)	---- ( 5 )	---- (47)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	0.000	1235602.	0.	19.612	0.	0.000	4.171
MX	0.	128.600	1509836.	0.	19.612	0.	27.118	4.171
SM	0.	36250.195	1033671536.	0.	14591.033	0.	8309.295	3103.449
AV	0.	48.723	1389346.	0.	19.612	0.	11.168	4.171
MONTHLY SUMMARY (SEP)								
MN	0.	0.000	1242711.	0.	19.612	0.	0.000	4.171
MX	0.	108.450	1522348.	0.	19.612	0.	23.470	4.171
SM	0.	22050.830	996909952.	0.	14120.354	0.	5203.727	3003.337
AV	0.	30.626	1384597.	0.	19.612	0.	7.227	4.171
MONTHLY SUMMARY (OCT)								
MN	-541624.	0.000	1256234.	-1251263.	19.612	-87899.	0.000	4.171
MX	0.	61.329	1599287.	0.	19.612	0.	13.149	4.171
SM	-36558256.	7224.015	1063023104.	-480485248.	14591.033	-6123826.	1851.303	3103.449
AV	-49137.	9.710	1428795.	-645814.	19.612	-8231.	2.488	4.171
MONTHLY SUMMARY (NOV)								
MN	-529171.	0.000	1361226.	-1251263.	19.612	-93988.	0.000	4.171
MX	0.	0.000	1630112.	-1251263.	19.612	0.	0.000	4.171
SM	-88818216.	0.000	1091117056.	-900909952.	14120.354	-13137228.	0.000	3003.337
AV	-123359.	0.000	1515440.	-1251264.	19.612	-18246.	0.000	4.171
MONTHLY SUMMARY (DEC)								
MN	-775948.	0.000	1381671.	-1251263.	19.612	-152186.	0.000	4.171
MX	0.	0.000	1733234.	-1251263.	19.612	0.	0.000	4.171
SM	-206635168.	0.000	1173463808.	-930940288.	14591.033	-34816456.	0.000	3103.449
AV	-277735.	0.000	1577236.	-1251264.	19.612	-46796.	0.000	4.171
YEARLY SUMMARY								
MN	-932286.	0.000	1212441.	-1251263.	19.612	-175680.	0.000	4.171
MX	0.	129.395	1807260.	0.	19.612	0.	27.624	4.171
SM	-920416384.	146582.266	12870892544.	-5915975680.	171797.641	-154337984.	34155.461	36540.609
AV	-105070.	16.733	1469280.	-675340.	19.612	-17618.	3.899	4.171

MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	UH-1	UH-1	UH-1
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	----(70)	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)
MONTHLY SUMMARY (JAN)								
MN	296121.	-266138.	-467369.	30.794	-440973.	-208683.	0.000	0.
MX	381620.	-266138.	-39499.	30.794	-440973.	-21364.	0.000	0.
SM	252905424.	-198006688.	-269767232.	22911.053	-328084160.	-71153336.	0.000	0.
AV	339927.	-266138.	-362590.	30.794	-440973.	-95636.	0.000	0.
MONTHLY SUMMARY (FEB)								
MN	291753.	-266138.	-507163.	30.794	-440973.	-345554.	0.000	0.
MX	381620.	-266138.	-11269.	30.794	-440973.	-12269.	0.000	0.
SM	224376704.	-178844752.	-236810224.	20693.854	-296334080.	-68100040.	0.000	0.
AV	333894.	-266138.	-352396.	30.794	-440973.	-101339.	0.000	0.
MONTHLY SUMMARY (MAR)								
MN	273411.	-266138.	-497235.	30.794	-440973.	-231723.	0.000	0.
MX	354146.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	239162960.	-198006688.	-182537216.	22911.053	-328084160.	-50751668.	0.000	0.
AV	321456.	-266138.	-245346.	30.794	-440973.	-68215.	0.000	0.
MONTHLY SUMMARY (APR)								
MN	276171.	-266138.	-455889.	30.794	-440973.	-156506.	0.000	0.
MX	344214.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	223246368.	-191619376.	-78362688.	22171.986	-317500800.	-22452656.	0.000	0.
AV	310064.	-266138.	-108837.	30.794	-440973.	-31184.	0.000	0.
MONTHLY SUMMARY (MAY)								
MN	257323.	0.	0.	30.794	0.	0.	0.000	0.
MX	332882.	0.	0.	30.794	0.	0.	0.000	0.
SM	220260912.	0.	0.	22911.053	0.	0.	0.000	0.
AV	296050.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (JUN)								
MN	256528.	0.	0.	30.794	0.	0.	0.000	0.
MX	313243.	0.	0.	30.794	0.	0.	0.000	0.
SM	208253088.	0.	0.	22171.986	0.	0.	0.000	0.
AV	289240.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (JUL)								
MN	261269.	0.	0.	30.794	0.	0.	0.000	0.
MX	318963.	0.	0.	30.794	0.	0.	0.000	0.
SM	216780688.	0.	0.	22911.053	0.	0.	0.000	0.
AV	291372.	0.	0.	30.794	0.	0.	0.000	0.

ENTECH ENGINEERING  
READING, PA 19603  
SH-1 - HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 12/28/1995  
BUILDING 2786 - COMMISSARY

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	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	UH-1	UH-1	UH-1
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	261251.	0.	0.	30.794	0.	0.	0.000	0.
MX	315931.	0.	0.	30.794	0.	0.	0.000	0.
SM	217370912.	0.	0.	22911.053	0.	0.	0.000	0.
AV	292165.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (SEP)								
MN	262467.	0.	0.	30.794	0.	0.	0.000	0.
MX	318411.	0.	0.	30.794	0.	0.	0.000	0.
SM	210073792.	0.	0.	22171.986	0.	0.	0.000	0.
AV	291769.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (OCT)								
MN	265266.	-266138.	-303667.	30.794	-440973.	-182623.	0.000	0.
MX	337705.	0.	0.	30.794	0.	0.	0.000	0.
SM	224329312.	-102197000.	-30225314.	22911.053	-169333760.	-9799641.	0.000	0.
AV	301518.	-137362.	-40625.	30.794	-227599.	-13172.	0.000	0.
MONTHLY SUMMARY (NOV)								
MN	287436.	-266138.	-454714.	30.794	-440973.	-149711.	0.000	0.
MX	344214.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	230499264.	-191619376.	-136063648.	22171.986	-317500800.	-35014020.	0.000	0.
AV	320138.	-266138.	-188977.	30.794	-440973.	-48631.	0.000	0.
MONTHLY SUMMARY (DEC)								
MN	292009.	-266138.	-478265.	30.794	-440973.	-207067.	0.000	0.
MX	365989.	-266138.	-5405.	30.794	-440973.	-9586.	0.000	0.
SM	247808336.	-198006688.	-252059968.	22911.053	-328084160.	-63802708.	0.000	0.
AV	333076.	-266138.	-338790.	30.794	-440973.	-85756.	0.000	0.
YEARLY SUMMARY								
MN	256528.	-266138.	-507163.	30.794	-440973.	-345554.	0.000	0.
MX	381620.	0.	0.	30.794	0.	0.	0.000	0.
SM	2715067392.	-1258300544.	-1185826304.	269759.156	-2084921856.	-321074080.	0.000	0.
AV	309939.	-143642.	-135368.	30.794	-238005.	-36652.	0.000	0.

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WEATHER FILE- BALTIMORE, MD

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ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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MONTH	S I T E E N E R G Y												SOURCE
	2 TOTAL HEAT LOAD	3 TOTAL COOLING LOAD	4 TOTAL ELECTR LOAD	5 RCVRD ENERGY	6 WASTED RCVRBL ENERGY	7 FUEL INPUT COOLING	8 ELEC INPUT COOLING	9 FUEL INPUT HEATING	10 ELEC INPUT HEATING	11 FUEL INPUT ELECT	12 TOTAL FUEL INPUT	13 TOTAL SITE ENERGY	14 TOTAL SOURCE ENERGY
JAN	639.8	0.0	481.1 140.9E	0.0	0.0	0.0	0.0 0.0E	1012.8	55.0 16.1E	0.0	1012.8	1493.9	2457.6
FEB	550.6	0.0	424.0 124.2E	0.0	0.0	0.0	0.0 0.0E	867.6	46.8 13.7E	0.0	867.6	1291.6	2140.8
MAR	368.6	0.0	464.0 135.9E	0.0	0.0	0.0	0.0 0.0E	594.0	36.0 10.5E	0.0	594.0	1058.1	1987.5
APR	145.5	0.0	431.4 126.3E	0.0	0.0	0.0	0.0 0.0E	236.7	17.6 5.2E	0.0	236.7	668.1	1532.2
MAY	0.0	0.0	468.0 137.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	468.0	1405.4
JUN	0.0	0.0	538.7 157.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	538.7	1617.7
JUL	0.0	0.0	581.6 170.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	581.6	1746.5
AUG	0.0	0.0	579.9 169.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	579.9	1741.4
SEP	0.0	0.0	497.9 145.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	497.9	1495.3
OCT	87.5	0.0	458.2 134.2E	0.0	0.0	0.0	0.0 0.0E	142.9	10.3 3.0E	0.0	142.9	601.1	1518.9
NOV	282.0	0.0	425.8 124.7E	0.0	0.0	0.0	0.0 0.0E	459.5	29.5 8.7E	0.0	459.5	885.3	1738.3
DEC	566.6	0.0	471.2 138.0E	0.0	0.0	0.0	0.0 0.0E	910.0	51.9 15.2E	0.0	910.0	1381.2	2325.0
	2640.7	0.0	5821.9 1705.1E	0.0	0.0	0.0	0.0 0.0E	4223.4	247.2 72.4E	0.0	4223.4	10045.3	21706.6

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTRCH ENGINEERING  
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REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

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ENERGY USE

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MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	481.123	1012.774
JAN	PEAK (KBTU)	872.047	2462.254
	DY/HR	17/10	17/ 4
	TOTAL (MBTU)	423.986	867.612
FEB	PEAK (KBTU)	872.892	2662.850
	DY/HR	12/13	12/ 6
	TOTAL (MBTU)	464.031	594.035
MAR	PEAK (KBTU)	872.123	2280.533
	DY/HR	4/10	4/ 4
	TOTAL (MBTU)	431.408	236.697
APR	PEAK (KBTU)	871.708	1853.773
	DY/HR	8/11	8/ 2
	TOTAL (MBTU)	467.986	0.000
MAY	PEAK (KBTU)	1080.173	0.000
	DY/HR	21/17	31/ 1
	TOTAL (MBTU)	538.704	0.000
JUN	PEAK (KBTU)	1299.412	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	581.574	0.000
JUL	PEAK (KBTU)	1314.088	0.000
	DY/HR	25/17	31/ 1
	TOTAL (MBTU)	579.889	0.000
AUG	PEAK (KBTU)	1309.648	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	497.925	0.000
SEP	PEAK (KBTU)	1227.916	0.000
	DY/HR	1/17	30/ 1
	TOTAL (MBTU)	458.227	142.872
OCT	PEAK (KBTU)	1032.259	1752.659
	DY/HR	13/16	16/ 2
	TOTAL (MBTU)	425.829	459.496
NOV	PEAK (KBTU)	871.664	1875.556
	DY/HR	25/ 7	8/ 4
	TOTAL (MBTU)	471.219	909.952
DEC	PEAK (KBTU)	872.037	2336.728
	DY/HR	6/12	22/ 3
	ONE YEAR	5821.900	4223.437
	USE/PEAK	1314.088	2662.850



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

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WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	2640.7	100.0
-----	-----	-----
LOAD SATISFIED	2640.7	100.0
TOTAL LOAD ON PLANT	2640.7	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	5821.9	100.0
-----	-----	-----
LOAD SATISFIED	5821.9	100.0
TOTAL LOAD ON PLANT	5821.9	

ENTECH ENGINEERING  
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REPORT- PS-D PLANT LOADS SATISFIED

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WEATHER FILE- BALTIMORE, MD  
(CONTINUED)

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2640.7	2640.7	0.000	0.000	0
ELECTRICAL LOADS	5821.9	5821.9	0.000	0.000	0

EQUIPMENT	AVG	MAX	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
	OPER RATIO	LOAD (MBTU)	DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.143	1.887	2	12	6	3.900	4728							

ENTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D 12/28/1995	14:45:54 PDL RUN 1
READING, PA 19603	FT. GEORGE G. MEADE	BUILDING 2786 - COMMISSARY	
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD	

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# EQUIPMENT TOTALS ---

HW-BOILER	97.3		
NOMINAL SIZE (MBTU)		3.900	
NUMBER INSTALLED		1	
FIRST COST (KS)	88.3	88.3	
ANNUAL COST (KS)	1.1	1.1	
CYCLICAL COST (KS)	7.9	7.9	
-----TOTAL---- (KS)		97.3	
<hr/>			
EQUIPMENT TOTAL	97.3		

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D 12/28/1995      14:45:54 PDL RUN 1  
 READING, PA      19603      FT. GEORGE G. MEADE      BUILDING 2786 - COMMISSARY  
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE      WEATHER FILE- BALTIMORE, MD

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ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	214.32	4223.45
SPACE COOL	617.12	0.00
HVAC AUX	1667.23	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	2481.18	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	841.95	0.00
	-----	-----
TOTAL	5821.79	4223.45

TOTAL SITE ENERGY	10045.34 MBTU	84.5 KBTU/SQFT-YR GROSS-AREA	84.5 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	21706.62 MBTU	182.6 KBTU/SQFT-YR GROSS-AREA	182.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

HOURLY DATA FILE 2 FROM PROG 3

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EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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MMDDHH	HW-BOILE R LOAD BTU/HR ----( 1)	HW-BOILE R ELECTRIC USE BTU/HR ----( 3)	HW-BOILE R FUEL USE BTU/HR ----( 4)
MONTHLY SUMMARY (JAN)			
MN	75675.	6659.	123663.
MX	1712924.	85800.	2462254.
SM	639801792.	49858152.	1012774464.
AV	859949.	67014.	1361256.
MONTHLY SUMMARY (FEB)			
MN	36024.	3170.	58868.
MX	1886692.	85800.	2662850.
SM	550645952.	42154716.	867611904.
AV	819414.	62730.	1291089.
MONTHLY SUMMARY (MAR)			
MN	12487.	1099.	20405.
MX	1556644.	85800.	2280533.
SM	368596448.	30793394.	594034496.
AV	495425.	41389.	798433.
MONTHLY SUMMARY (APR)			
MN	12487.	1099.	20405.
MX	1193751.	85800.	1853773.
SM	145517984.	12586482.	236697232.
AV	202108.	17481.	328746.
MONTHLY SUMMARY (OCT)			
MN	12487.	1099.	20405.
MX	1108595.	85800.	1752659.
SM	87501944.	7676449.	142871696.
AV	227870.	19991.	372062.
MONTHLY SUMMARY (NOV)			
MN	12487.	1099.	20405.
MX	1212138.	85800.	1875556.
SM	282023552.	24544474.	459495488.
AV	391699.	34090.	638188.
MONTHLY SUMMARY (DEC)			
MN	31196.	2745.	50978.
MX	1604858.	85800.	2336728.
SM	566604544.	46707036.	909951936.
AV	761565.	62778.	1223054.

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HW-BOILE	HW-BOILE	HW-BOILE
R	R	R
LOAD	ELECTRIC	FUEL
USE	USE	USE
BTU/HR	BTU/HR	BTU/HR
---- ( 1 )	---- ( 3 )	---- ( 4 )

YEARLY SUMMARY

MN	12487.	1099.	20405.
MX	1886692.	85800.	2662850.
SM	2640692224.	214320704.	4223437312.
AV	558522.	45330.	893282.

BUILDING 2786  
W/VENT CONTROL  
FILE: FTM2786N

ENTECH ENGINEERING READING, PA 19603 SH-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC PT. GEORGE G. MEADE			DOB-2.1D 12/28/1995 BUILDING 2786 - COMMISSARY			15: 2:45 SDL RUN 1 PAGE 1- 1	
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2		
	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	SUPPLY ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW		
	---- ( 5)	----(47)	----(70)	----(78)	----(49)	---- ( 5)	----(47)	----(49)		
MONTHLY SUMMARY (JAN)										
MN	-796272.	0.000	1402355.	-1251263.	19.612	-154179.	0.000	4.171		
MX	0.	0.000	1807260.	-1251263.	19.612	0.	0.000	4.171		
SM	-161509056.	0.000	1197682688.	-930940288.	14591.033	-25545264.	0.000	3103.449		
AV	-217082.	0.000	1609789.	-1251264.	19.612	-34335.	0.000	4.171		
MONTHLY SUMMARY (FEB)										
MN	-926359.	0.000	1381671.	-1251263.	19.612	-165836.	0.000	4.171		
MX	0.	0.000	1807260.	-1251263.	19.612	0.	0.000	4.171		
SM	-127814968.	0.000	1062603520.	-840849280.	13178.997	-20154952.	0.000	2803.115		
AV	-190201.	0.000	1581255.	-1251264.	19.612	-29992.	0.000	4.171		
MONTHLY SUMMARY (MAR)										
MN	-597228.	0.000	1294808.	-1251263.	19.612	-108530.	0.000	4.171		
MX	0.	0.000	1677148.	-1251263.	19.612	0.	0.000	4.171		
SM	-53136948.	0.000	1133088000.	-930940288.	14591.033	-6627361.	0.000	3103.449		
AV	-71421.	0.000	1522968.	-1251264.	19.612	-8908.	0.000	4.171		
MONTHLY SUMMARY (APR)										
MN	-445663.	0.000	1307878.	-1251263.	19.612	-76990.	0.000	4.171		
MX	0.	0.000	1630112.	-1251263.	19.612	0.	0.000	4.171		
SM	-10842826.	0.000	1061273024.	-900909952.	14120.354	-806402.	0.000	3003.337		
AV	-15059.	0.000	1473990.	-1251264.	19.612	-1120.	0.000	4.171		
MONTHLY SUMMARY (MAY)										
MN	0.	0.000	1218618.	0.	19.612	0.	0.000	4.171		
MX	0.	72.850	1576448.	0.	19.612	0.	16.432	4.171		
SM	0.	14319.586	1040360960.	0.	14591.033	0.	3546.782	3103.449		
AV	0.	19.247	1398335.	0.	19.612	0.	4.767	4.171		
MONTHLY SUMMARY (JUN)										
MN	0.	0.000	1212441.	0.	19.612	0.	0.000	4.171		
MX	0.	125.864	1474038.	0.	19.612	0.	26.821	4.171		
SM	0.	29984.043	975496192.	0.	14120.354	0.	6896.226	3003.337		
AV	0.	41.645	1354856.	0.	19.612	0.	9.578	4.171		
MONTHLY SUMMARY (JUL)										
MN	0.	5.181	1208709.	0.	19.612	0.	1.931	4.171		
MX	0.	129.083	1502728.	0.	19.612	0.	27.546	4.171		
SM	0.	37795.027	1006843392.	0.	14591.033	0.	8526.353	3103.449		
AV	0.	50.800	1353284.	0.	19.612	0.	11.460	4.171		



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	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	SUPPLY ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- ( 5)	---- (47)	---- (70)	---- (78)	---- (49)	---- ( 5)	---- (47)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	0.000	1235635.	0.	19.612	0.	0.000	4.171
MX	0.	128.632	1492086.	0.	19.612	0.	27.127	4.171
SM	0.	35445.863	1012746688.	0.	14591.033	0.	8080.285	3103.449
AV	0.	47.642	1361219.	0.	19.612	0.	10.861	4.171
MONTHLY SUMMARY (SEP)								
MN	0.	0.000	1242711.	0.	19.612	0.	0.000	4.171
MX	0.	108.439	1494753.	0.	19.612	0.	23.466	4.171
SM	0.	22611.785	983612096.	0.	14120.354	0.	5301.977	3003.337
AV	0.	31.405	1366128.	0.	19.612	0.	7.364	4.171
MONTHLY SUMMARY (OCT)								
MN	-367654.	0.000	1256234.	-1251263.	19.612	-66123.	0.000	4.171
MX	0.	63.362	1599287.	0.	19.612	0.	13.469	4.171
SM	-15177657.	8952.771	1061137472.	-480485248.	14591.033	-1959449.	2268.996	3103.449
AV	-20400.	12.033	1426260.	-645814.	19.612	-2634.	3.050	4.171
MONTHLY SUMMARY (NOV)								
MN	-421376.	0.000	1361226.	-1251263.	19.612	-74832.	0.000	4.171
MX	0.	0.000	1630112.	-1251263.	19.612	0.	0.000	4.171
SM	-38009116.	0.000	1093123968.	-900909952.	14120.354	-3749846.	0.000	3003.337
AV	-52790.	0.000	1518228.	-1251264.	19.612	-5208.	0.000	4.171
MONTHLY SUMMARY (DEC)								
MN	-663102.	0.000	1381671.	-1251263.	19.612	-123455.	0.000	4.171
MX	0.	0.000	1733234.	-1251263.	19.612	0.	0.000	4.171
SM	-124808720.	0.000	1173836672.	-930940288.	14591.033	-17948170.	0.000	3103.449
AV	-167754.	0.000	1577738.	-1251264.	19.612	-24124.	0.000	4.171
YEARLY SUMMARY								
MN	-926359.	0.000	1208709.	-1251263.	19.612	-165836.	0.000	4.171
MX	0.	129.083	1807260.	0.	19.612	0.	27.546	4.171
SM	-531299328.	149109.063	12801805312.	-5915975680.	171797.641	-76791440.	34620.617	36540.609
AV	-60651.	17.022	1461393.	-675340.	19.612	-8766.	3.952	4.171

ENTECH ENGINEERING  
READING, PA 19603  
SH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

DOE-2.1D 12/28/1995  
BUILDING 2786 - COMMISSARY

15: 2:45 SDL RUN 1

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MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	UH-1	UH-1	UH-1
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
----	(70)	(78)	---	(5)	----	(78)	----	(49)
MONTHLY SUMMARY (JAN)								
MN	296121.	-266138.	-467300.	30.794	-440973.	-208656.	0.000	0.
MX	381620.	-266138.	-39111.	30.794	-440973.	-21276.	0.000	0.
SM	252910096.	-198006688.	-269698560.	22911.053	-328084160.	-71045960.	0.000	0.
AV	339933.	-266138.	-362498.	30.794	-440973.	-95492.	0.000	0.
MONTHLY SUMMARY (FEB)								
MN	291753.	-266138.	-507119.	30.794	-440973.	-345525.	0.000	0.
MX	381620.	-266138.	-11138.	30.794	-440973.	-12159.	0.000	0.
SM	224388192.	-178844752.	-236749184.	20693.854	-296334080.	-67995200.	0.000	0.
AV	333911.	-266138.	-352305.	30.794	-440973.	-101183.	0.000	0.
MONTHLY SUMMARY (MAR)								
MN	273411.	-266138.	-497251.	30.794	-440973.	-231511.	0.000	0.
MX	354146.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	239373840.	-198006688.	-182124000.	22911.053	-328084160.	-50218900.	0.000	0.
AV	321739.	-266138.	-244790.	30.794	-440973.	-67499.	0.000	0.
MONTHLY SUMMARY (APR)								
MN	277437.	-266138.	-455914.	30.794	-440973.	-156386.	0.000	0.
MX	347977.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	224885856.	-191619376.	-77506048.	22171.986	-317500800.	-21161056.	0.000	0.
AV	312341.	-266138.	-107647.	30.794	-440973.	-29390.	0.000	0.
MONTHLY SUMMARY (MAY)								
MN	257323.	0.	0.	30.794	0.	0.	0.000	0.
MX	332882.	0.	0.	30.794	0.	0.	0.000	0.
SM	219456064.	0.	0.	22911.053	0.	0.	0.000	0.
AV	294968.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (JUN)								
MN	256537.	0.	0.	30.794	0.	0.	0.000	0.
MX	308314.	0.	0.	30.794	0.	0.	0.000	0.
SM	205323568.	0.	0.	22171.986	0.	0.	0.000	0.
AV	285172.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (JUL)								
MN	254821.	0.	0.	30.794	0.	0.	0.000	0.
MX	315768.	0.	0.	30.794	0.	0.	0.000	0.
SM	211710496.	0.	0.	22911.053	0.	0.	0.000	0.
AV	284557.	0.	0.	30.794	0.	0.	0.000	0.

	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	UH-1	UH-1	UH-1
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	261261.	0.	0.	30.794	0.	0.	0.000	0.
MX	311538.	0.	0.	30.794	0.	0.	0.000	0.
SM	212904480.	0.	0.	22911.053	0.	0.	0.000	0.
AV	286162.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (SEP)								
MN	262467.	0.	0.	30.794	0.	0.	0.000	0.
MX	315631.	0.	0.	30.794	0.	0.	0.000	0.
SM	207314192.	0.	0.	22171.986	0.	0.	0.000	0.
AV	287936.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (OCT)								
MN	265266.	-266138.	-303520.	30.794	-440973.	-174055.	0.000	0.
MX	337705.	0.	0.	30.794	0.	0.	0.000	0.
SM	223864448.	-102197000.	-30189086.	22911.053	-169333760.	-9707728.	0.000	0.
AV	300893.	-137362.	-40577.	30.794	-227599.	-13048.	0.000	0.
MONTHLY SUMMARY (NOV)								
MN	288869.	-266138.	-454713.	30.794	-440973.	-149668.	0.000	0.
MX	344918.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	231046592.	-191619376.	-135494016.	22171.986	-317500800.	-34323952.	0.000	0.
AV	320898.	-266138.	-188186.	30.794	-440973.	-47672.	0.000	0.
MONTHLY SUMMARY (DEC)								
MN	292442.	-266138.	-478281.	30.794	-440973.	-207045.	0.000	0.
MX	365989.	-266138.	-4647.	30.794	-440973.	-9437.	0.000	0.
SM	247892096.	-198006688.	-251973840.	22911.053	-328084160.	-63693232.	0.000	0.
AV	333188.	-266138.	-338675.	30.794	-440973.	-85609.	0.000	0.
YEARLY SUMMARY								
MN	254821.	-266138.	-507119.	30.794	-440973.	-345525.	0.000	0.
MX	381620.	0.	0.	30.794	0.	0.	0.000	0.
SM	2701069824.	-1258300544.	-1183734784.	269759.156	-2084921856.	-318146016.	0.000	0.
AV	308341.	-143642.	-135130.	30.794	-238005.	-36318.	0.000	0.



S I T E E N E R G Y													SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
MONTH	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	537.0	0.0	475.9 139.4E	0.0	0.0	0.0	0.0 0.0E	864.4	49.8 14.6E	0.0	864.4	1340.3	2293.5
FEB	461.1	0.0	419.4 122.8E	0.0	0.0	0.0	0.0 0.0E	738.1	42.2 12.4E	0.0	738.1	1157.5	1997.5
MAR	301.3	0.0	459.2 134.5E	0.0	0.0	0.0	0.0 0.0E	490.0	31.2 9.1E	0.0	490.0	949.3	1869.1
APR	119.3	0.0	429.3 125.7E	0.0	0.0	0.0	0.0 0.0E	194.8	15.4 4.5E	0.0	194.8	624.0	1483.8
MAY	0.0	0.0	477.8 139.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	477.8	1434.9
JUN	0.0	0.0	539.6 158.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	539.6	1620.4
JUL	0.0	0.0	575.0 168.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	575.0	1726.7
AUG	0.0	0.0	576.4 168.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	576.4	1730.8
SEP	0.0	0.0	500.2 146.5E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	500.2	1502.0
OCT	61.8	0.0	463.3 135.7E	0.0	0.0	0.0	0.0 0.0E	101.0	8.1 2.4E	0.0	101.0	564.3	1492.3
NOV	220.5	0.0	420.6 123.2E	0.0	0.0	0.0	0.0 0.0E	360.3	24.4 7.1E	0.0	360.3	780.9	1623.4
DEC	467.7	0.0	464.8 136.1E	0.0	0.0	0.0	0.0 0.0E	759.9	45.4 13.3E	0.0	759.9	1224.7	2155.6
	2168.6	0.0	5801.4 1699.1E	0.0	0.0	0.0	0.0 0.0E	3508.4	216.5 63.4E	0.0	3508.4	9309.9	20930.1

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE  
MONTHLY PEAK AND TOTAL ENERGY USE

DOE-2.1D 12/28/1995 15: 2:45 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	475.888	864.403
JAN	PEAK (KBTU)	872.004	2302.818
	DY/HR	17/10	16/20
	TOTAL (MBTU)	419.370	738.108
FEB	PEAK (KBTU)	872.849	2649.592
	DY/HR	12/13	12/ 6
	TOTAL (MBTU)	459.241	490.018
MAR	PEAK (KBTU)	872.080	2030.293
	DY/HR	4/10	5/ 8
	TOTAL (MBTU)	429.255	194.772
APR	PEAK (KBTU)	871.665	1743.182
	DY/HR	8/11	9/ 6
	TOTAL (MBTU)	477.836	0.000
MAY	PEAK (KBTU)	1080.878	0.000
	DY/HR	21/17	31/ 1
	TOTAL (MBTU)	539.600	0.000
JUN	PEAK (KBTU)	1299.290	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	574.993	0.000
JUL	PEAK (KBTU)	1312.758	0.000
	DY/HR	25/17	31/ 1
	TOTAL (MBTU)	576.361	0.000
AUG	PEAK (KBTU)	1309.787	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	500.176	0.000
SEP	PEAK (KBTU)	1227.869	0.000
	DY/HR	1/17	30/ 1
	TOTAL (MBTU)	463.301	100.989
OCT	PEAK (KBTU)	1040.291	1301.045
	DY/HR	13/16	28/ 6
	TOTAL (MBTU)	420.635	360.250
NOV	PEAK (KBTU)	871.621	1716.258
	DY/HR	25/ 7	25/ 6
	TOTAL (MBTU)	464.774	759.890
DEC	PEAK (KBTU)	871.994	2084.711
	DY/HR	6/12	21/ 6
	ONE YEAR	5801.429	3508.430
	USE/PEAK	1312.758	2649.592

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 12/28/1995 15: 2:45 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	2168.7	100.0
	-----	-----
LOAD SATISFIED	2168.7	100.0
TOTAL LOAD ON PLANT	2168.7	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	5801.4	100.0
	-----	-----
LOAD SATISFIED	5801.4	100.0
TOTAL LOAD ON PLANT	5801.4	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15: 2:45 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2168.7	2168.7	0.000	0.000	0
ELECTRICAL LOADS	5801.4	5801.4	0.000	0.000	0



DOE-2.1D 12/28/1995 15: 2:45 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
			DAY	HR								
HW-BOILER	0.118	1.875	2	12	6	3,900	4728					

EMTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D 12/28/1995	15: 2:45 PDL RUN 1
READING, PA 19603	FT. GEORGE G. MEADE	BUILDING 2786 - COMMISSARY	
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD	

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# EQUIPMENT TOTALS

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HW-BOILER	97.3		
NOMINAL SIZE (MBTU)		3.900	
NUMBER INSTALLED		1	
FIRST COST (K\$)	88.3	88.3	
ANNUAL COST (K\$)	1.1	1.1	
CYCLICAL COST (K\$)	7.9	7.9	
-----TOTAL----- (K\$)		97.3	
<hr/>			
EQUIPMENT TOTAL	97.3		

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	183.86	1508.42
SPACE COOL	627.33	0.00
HVAC AUX	1667.00	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	2481.16	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	841.95	0.00
	-----	-----
TOTAL	5801.29	1508.42

TOTAL SITE ENERGY      9309.86 MBTU      78.3 KBTU/SQFT-YR GROSS-AREA      78.3 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY      20930.14 MBTU      176.1 KBTU/SQFT-YR GROSS-AREA      176.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING  
READING, PA 19603  
PH-1  
- HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 12/28/1995 15: 2:45 PDL RUN 1  
BUILDING 2786 - COMMISSARY

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MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR
--------	---------------------------------	--	--

----	( 1 )	----( 3 )	----( 4 )
------	-------	-----------	-----------

MONTHLY SUMMARY (JAN)

MN	74683.	6572.	122042.
MX	1575751.	85800.	2302818.
SM	537032192.	44656424.	864402496.
AV	721817.	60022.	1161831.

MONTHLY SUMMARY (FEB)

MN	35707.	3142.	58351.
MX	1875165.	85800.	2649592.
SM	461054112.	37568352.	738108416.
AV	686092.	55905.	1098376.

MONTHLY SUMMARY (MAR)

MN	12410.	1092.	20280.
MX	1343164.	85800.	2030293.
SM	301340576.	26038210.	490018400.
AV	405028.	34998.	658627.

MONTHLY SUMMARY (APR)

MN	12410.	1092.	20280.
MX	1100630.	85800.	1743182.
SM	119251840.	10473671.	194771712.
AV	165628.	14547.	270516.

MONTHLY SUMMARY (OCT)

MN	12410.	1092.	20280.
MX	796165.	70063.	1301045.
SM	61799536.	5438359.	100989072.
AV	160936.	14162.	262992.

MONTHLY SUMMARY (NOV)

MN	12410.	1092.	20280.
MX	1078015.	85800.	1716258.
SM	220512464.	19385560.	360250560.
AV	306267.	26924.	500348.

MONTHLY SUMMARY (DEC)

MN	29246.	2574.	47792.
MX	1389420.	85800.	2084711.
SM	467657344.	40294612.	759890048.
AV	628572.	54159.	1021358.

ENTECH ENGINEERING  
READING, PA 19603  
PH-1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15: 2:45 PDL RUN 1  
BUILDING 2786 - COMMISSARY

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	HW-BOILE	HW-BOILE	HW-BOILE
	R	R	R
	LOAD	ELECTRIC	FUEL
	USE	USE	USE
	BTU/HR	BTU/HR	BTU/HR
----	( 1)	( 3)	( 4)
YEARLY SUMMARY			
MN	12410.	1092.	20280.
MX	1875165.	85800.	2649592.
SM	2168648192.	183855184.	3508430848.
AV	458682.	38886.	742054.

BUILDING 2786  
N/VENT & NIGHT SETBACK  
FILE : FTM 2786N

ENTECH ENGINEERING READING, PA 19603 SH-1 - HOURLY-REPORT			BZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOB-2.1D 12/28/1995 15:28:25 SDL RUN 1 BUILDING 2786 - COMMISSARY			PAGE 1- 1
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	
	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	SUPPLY ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	
	---- ( 5 )	---- (47)	---- (70)	---- (78)	---- (49)	---- ( 5 )	---- (47)	---- (49)	
MONTHLY SUMMARY (JAN)									
MN	-1135218.	0.000	1409303.	-1251263.	19.612	-243149.	0.000	4.171	
MX	0.	0.000	1807260.	-1251263.	19.612	0.	0.000	4.171	
SM	-157045680.	0.000	719373184.	-563068544.	8825.219	-25990538.	0.000	1877.084	
AV	-348990.	0.000	1598607.	-1251263.	19.612	-57757.	0.000	4.171	
MONTHLY SUMMARY (FEB)									
MN	-1146109.	0.000	1381671.	-1251263.	19.612	-233735.	0.000	4.171	
MX	0.	0.000	1807260.	-1251263.	19.612	0.	0.000	4.171	
SM	-123299944.	0.000	615830272.	-491746560.	7707.358	-20355062.	0.000	1639.320	
AV	-313740.	0.000	1566998.	-1251264.	19.612	-51794.	0.000	4.171	
MONTHLY SUMMARY (MAR)									
MN	-878154.	0.000	1294808.	-1251263.	19.612	-165338.	0.000	4.171	
MX	0.	0.000	1669242.	-1251263.	19.612	0.	0.000	4.171	
SM	-56846028.	0.000	681274304.	-566822400.	8884.054	-7708007.	0.000	1889.598	
AV	-125488.	0.000	1503917.	-1251264.	19.612	-17015.	0.000	4.171	
MONTHLY SUMMARY (APR)									
MN	-635343.	0.000	1307878.	-1251263.	19.612	-109021.	0.000	4.171	
MX	0.	0.000	1630112.	-1251263.	19.612	0.	0.000	4.171	
SM	-12988204.	0.000	637384704.	-548053376.	8589.880	-1153396.	0.000	1827.028	
AV	-29653.	0.000	1455216.	-1251263.	19.612	-2633.	0.000	4.171	
MONTHLY SUMMARY (MAY)									
MN	0.	0.000	1218618.	0.	19.612	0.	0.000	4.171	
MX	0.	76.020	1568888.	0.	19.612	0.	16.685	4.171	
SM	0.	11585.011	603216960.	0.	8531.045	0.	2906.422	1814.515	
AV	0.	26.632	1386706.	0.	19.612	0.	6.681	4.171	
MONTHLY SUMMARY (JUN)									
MN	0.	0.000	1212441.	0.	19.612	0.	0.660	4.171	
MX	0.	130.339	1472445.	0.	19.612	0.	27.851	4.171	
SM	0.	25695.783	590365696.	0.	8589.880	0.	5946.947	1827.029	
AV	0.	58.666	1347867.	0.	19.612	0.	13.578	4.171	
MONTHLY SUMMARY (JUL)									
MN	0.	12.462	1237306.	0.	19.612	0.	3.814	4.171	
MX	0.	135.709	1482158.	0.	19.612	0.	28.969	4.171	
SM	0.	31864.377	588961664.	0.	8531.045	0.	7274.954	1814.515	
AV	0.	73.251	1353935.	0.	19.612	0.	16.724	4.171	

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	SUPPLY ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- ( 5)	---- (47)	---- (70)	---- (78)	---- (49)	---- ( 5)	---- (47)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	0.000	1237030.	0.	19.612	0.	0.765	4.171
MX	0.	132.263	1472355.	0.	19.612	0.	27.989	4.171
SM	0.	30510.770	614245952.	0.	8884.054	0.	7020.851	1889.598
AV	0.	67.353	1355951.	0.	19.612	0.	15.499	4.171
MONTHLY SUMMARY (SEP)								
MN	0.	0.000	1242917.	0.	19.612	0.	0.000	4.171
MX	0.	113.617	1494753.	0.	19.612	0.	25.428	4.171
SM	0.	18914.748	574903872.	0.	8295.706	0.	4481.602	1764.459
AV	0.	44.716	1359111.	0.	19.612	0.	10.595	4.171
MONTHLY SUMMARY (OCT)								
MN	-373808.	0.000	1267978.	-1251263.	19.612	-66798.	0.000	4.171
MX	0.	64.021	1599287.	0.	19.612	0.	13.753	4.171
SM	-9505911.	7240.162	612805440.	-289041760.	8531.045	-1136356.	1859.837	1814.515
AV	-21853.	16.644	1408748.	-664464.	19.612	-2612.	4.275	4.171
MONTHLY SUMMARY (NOV)								
MN	-795248.	0.000	1361226.	-1251263.	19.612	-151382.	0.000	4.171
MX	0.	0.000	1630112.	-1251263.	19.612	0.	0.000	4.171
SM	-36386940.	0.000	612990848.	-510515520.	8001.532	-3926627.	0.000	1701.890
AV	-89184.	0.000	1502429.	-1251264.	19.612	-9624.	0.000	4.171
MONTHLY SUMMARY (DEC)								
MN	-945665.	0.000	1381671.	-1251263.	19.612	-183024.	0.000	4.171
MX	0.	0.000	1733234.	-1251263.	19.612	0.	0.000	4.171
SM	-122583696.	0.000	684461312.	-548053376.	8589.880	-18270242.	0.000	1827.029
AV	-279871.	0.000	1562697.	-1251263.	19.612	-41713.	0.000	4.171
YEARLY SUMMARY								
MN	-1146109.	0.000	1212441.	-1251263.	19.612	-243149.	0.000	4.171
MX	0.	135.709	1807260.	0.	19.612	0.	28.969	4.171
SM	-518656384.	125810.852	7535814656.	-3517301248.	101960.695	-78540232.	29490.609	21686.580
AV	-99761.	24.199	1449474.	-676534.	19.612	-15107.	5.672	4.171

ENTECH ENGINEERING READING, PA 19603 - HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOB-2.1D 12/28/1995 15:28:25 SDL RUN 1 BUILDING 2786 - COMMISSARY			PAGE 1- 2
SH-1									
MMDDRH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	UH-1	UH-1	UH-1	
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	
	----(70)	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)	
MONTHLY SUMMARY (JAN)									
MN	297588.	-266138.	-460314.	30.794	-440973.	-209720.	0.000	0.	
MX	381620.	-266138.	-65523.	30.794	-440973.	-21678.	0.000	0.	
SM	151907504.	-119762144.	-162765808.	13857.481	-198438064.	-43695704.	0.000	0.	
AV	337572.	-266138.	-361702.	30.794	-440973.	-97102.	0.000	0.	
MONTHLY SUMMARY (FEB)									
MN	291753.	-266138.	-476377.	30.794	-440973.	-346055.	0.000	0.	
MX	381620.	-266138.	-29105.	30.794	-440973.	-12646.	0.000	0.	
SM	130040832.	-104592272.	-135986320.	12102.201	-173302560.	-40932576.	0.000	0.	
AV	330893.	-266138.	-346021.	30.794	-440973.	-104154.	0.000	0.	
MONTHLY SUMMARY (MAR)									
MN	273411.	-266138.	-468503.	30.794	-440973.	-221214.	0.000	0.	
MX	352476.	-266138.	0.	30.794	-440973.	0.	0.000	0.	
SM	143884144.	-120560560.	-110576464.	13949.865	-199760992.	-31633754.	0.000	0.	
AV	317625.	-266138.	-244098.	30.794	-440974.	-69832.	0.000	0.	
MONTHLY SUMMARY (APR)									
MN	276171.	-266138.	-455473.	30.794	-440973.	-156707.	0.000	0.	
MX	344214.	-266138.	0.	30.794	-440973.	0.	0.000	0.	
SM	134946544.	-116568488.	-48130348.	13487.948	-193146384.	-13774161.	0.000	0.	
AV	308097.	-266138.	-109887.	30.794	-440973.	-31448.	0.000	0.	
MONTHLY SUMMARY (MAY)									
MN	257323.	0.	0.	30.794	0.	0.	0.000	0.	
MX	331286.	0.	0.	30.794	0.	0.	0.000	0.	
SM	127263344.	0.	0.	13395.565	0.	0.	0.000	0.	
AV	292559.	0.	0.	30.794	0.	0.	0.000	0.	
MONTHLY SUMMARY (JUN)									
MN	256635.	0.	0.	30.794	0.	0.	0.000	0.	
MX	307837.	0.	0.	30.794	0.	0.	0.000	0.	
SM	124348200.	0.	0.	13487.948	0.	0.	0.000	0.	
AV	283900.	0.	0.	30.794	0.	0.	0.000	0.	
MONTHLY SUMMARY (JUL)									
MN	261269.	0.	0.	30.794	0.	0.	0.000	0.	
MX	311705.	0.	0.	30.794	0.	0.	0.000	0.	
SM	123965416.	0.	0.	13395.565	0.	0.	0.000	0.	
AV	284978.	0.	0.	30.794	0.	0.	0.000	0.	



ENTECH ENGINEERING  
READING, PA 19603  
SH-1 - HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

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	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	UH-1	UH-1	UH-1
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	261648.	0.	0.	30.794	0.	0.	0.000	0.
MX	308320.	0.	0.	30.794	0.	0.	0.000	0.
SM	129299568.	0.	0.	13949.865	0.	0.	0.000	0.
AV	285430.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (SEP)								
MN	262542.	0.	0.	30.794	0.	0.	0.000	0.
MX	315631.	0.	0.	30.794	0.	0.	0.000	0.
SM	121221072.	0.	0.	13026.032	0.	0.	0.000	0.
AV	286575.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (OCT)								
MN	268079.	-266138.	-341470.	30.794	-440973.	-115780.	0.000	0.
MX	337705.	0.	0.	30.794	0.	0.	0.000	0.
SM	129315336.	-61477900.	-17868372.	13395.565	-101864840.	-5735789.	0.000	0.
AV	297277.	-141329.	-41077.	30.794	-234172.	-13186.	0.000	0.
MONTHLY SUMMARY (NOV)								
MN	288243.	-266138.	-449455.	30.794	-440973.	-150705.	0.000	0.
MX	344214.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	129540496.	-108584344.	-75299616.	12564.116	-179917168.	-19693550.	0.000	0.
AV	317501.	-266138.	-184558.	30.794	-440973.	-48269.	0.000	0.
MONTHLY SUMMARY (DEC)								
MN	291753.	-266138.	-477993.	30.794	-440973.	-207460.	0.000	0.
MX	365989.	-266138.	-35168.	30.794	-440973.	-13357.	0.000	0.
SM	144540800.	-116568496.	-146321856.	13487.948	-193146400.	-38475100.	0.000	0.
AV	330002.	-266138.	-334068.	30.794	-440974.	-87843.	0.000	0.
YEARLY SUMMARY								
MN	256635.	-266138.	-477993.	30.794	-440973.	-346055.	0.000	0.
MX	381620.	0.	0.	30.794	0.	0.	0.000	0.
SM	1590273408.	-748114176.	-696948800.	160100.094	-1239576320.	-193940640.	0.000	0.
AV	305881.	-143896.	-134054.	30.794	-238426.	-37303.	0.000	0.

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BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

[illegible]

MONTH	SITE ENERGY												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	529.4	0.0	443.5 129.9E	0.0	0.0	0.0	0.0 0.0E	839.1	47.4 13.9E	0.0	839.1	1282.6	2171.0
FEB	457.4	0.0	391.1 114.5E	0.0	0.0	0.0	0.0 0.0E	722.5	40.8 11.9E	0.0	722.5	1113.6	1897.0
MAR	291.9	0.0	418.9 122.7E	0.0	0.0	0.0	0.0 0.0E	470.6	30.4 8.9E	0.0	470.6	889.5	1728.5
APR	111.5	0.0	381.9 111.8E	0.0	0.0	0.0	0.0 0.0E	181.3	15.4 4.5E	0.0	181.3	563.2	1328.1
MAY	0.0	0.0	417.8 122.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	417.8	1254.5
JUN	0.0	0.0	476.9 139.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	476.9	1432.1
JUL	0.0	0.0	504.6 147.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	504.6	1515.2
AUG	0.0	0.0	510.1 149.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	510.1	1531.9
SEP	0.0	0.0	439.3 128.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	439.3	1319.1
OCT	54.8	0.0	408.7 119.7E	0.0	0.0	0.0	0.0 0.0E	89.5	7.9 2.3E	0.0	89.5	498.2	1317.0
NOV	209.9	0.0	376.1 110.2E	0.0	0.0	0.0	0.0 0.0E	341.3	23.9 7.0E	0.0	341.3	717.4	1470.8
DEC	462.0	0.0	431.6 126.4E	0.0	0.0	0.0	0.0 0.0E	742.5	44.1 12.9E	0.0	742.5	1174.2	2038.7
	2116.9	0.0	5200.5 1523.1E	0.0	0.0	0.0	0.0 0.0E	3386.9	209.8 61.5E	0.0	3386.9	8587.4	19004.0

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTTECH ENGINEERING      EZDOS - ELITE SOFTWARE DEVELOPMENT INC      DOR-2.1D 12/28/1995      15:28:25      PDL RUN 1  
 READING, PA 19603      FT. GEORGE G. MEADE      BUILDING 2786 - COMMISSARY  
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE      WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	443.543	839.087
JAN	PEAK (KBTU)	873.069	2788.605
	DY/HR	17/10	31/ 6
	TOTAL (MBTU)	391.116	722.484
FEB	PEAK (KBTU)	873.910	2977.863
	DY/HR	12/13	12/ 6
	TOTAL (MBTU)	418.861	470.636
MAR	PEAK (KBTU)	873.141	2412.521
	DY/HR	4/10	5/ 6
	TOTAL (MBTU)	381.887	181.343
APR	PEAK (KBTU)	872.724	2011.890
	DY/HR	8/11	9/ 6
	TOTAL (MBTU)	417.756	0.000
MAY	PEAK (KBTU)	1094.493	0.000
	DY/HR	21/17	31/ 1
	TOTAL (MBTU)	476.891	0.000
JUN	PEAK (KBTU)	1318.089	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	504.562	0.000
JUL	PEAK (KBTU)	1340.238	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	510.116	0.000
AUG	PEAK (KBTU)	1325.129	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	439.261	0.000
SEP	PEAK (KBTU)	1252.603	0.000
	DY/HR	2/14	30/ 1
	TOTAL (MBTU)	408.750	89.499
OCT	PEAK (KBTU)	1043.513	1615.685
	DY/HR	13/16	16/ 6
	TOTAL (MBTU)	376.112	341.316
NOV	PEAK (KBTU)	872.686	2265.796
	DY/HR	25/ 7	25/ 6
	TOTAL (MBTU)	431.620	742.550
DEC	PEAK (KBTU)	873.055	2470.307
	DY/HR	6/12	21/ 6
	ONE YEAR	5200.476	3386.915
	USE/PEAK	1340.238	2977.863

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

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HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	2116.9	100.0
LOAD SATISFIED	2116.9	100.0
TOTAL LOAD ON PLANT	2116.9	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	5200.5	100.0
LOAD SATISFIED	5200.5	100.0
TOTAL LOAD ON PLANT	5200.4	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

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BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2116.9	2116.9	0.000	0.000	0
ELECTRICAL LOADS	5200.4	5200.5	0.000	0.000	0

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15:28:25 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2116.9	2116.9	0.000	0.000	0
ELECTRICAL LOADS	5200.4	5200.5	0.000	0.000	0





ENTECH ENGINEERING	EZDOR - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D 12/28/1995	15:28:25 PDL RUN 1
READING, PA 19603	FT. GEORGE G. MEADE	BUILDING 2786 - COMMISSARY	
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD	

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E Q U I P M E N T T O T A L S

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HW-BOILER	97.3		
NOMINAL SIZE (MBTU)		3.900	
NUMBER INSTALLED		1	
FIRST COST (K\$)	88.3	88.3	
ANNUAL COST (K\$)	1.1	1.1	
CYCLICAL COST (K\$)	7.9	7.9	
-----TOTAL----- (K\$)		97.3	
<hr/>			
EQUIPMENT TOTAL	97.3		

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	172.16	3386.89
SPACE COOL	562.63	0.00
HVAC AUX	1142.59	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	2481.21	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	841.96	0.00
	-----	-----
TOTAL	5200.55	3386.89

TOTAL SITE ENERGY      8587.39 MBTU      72.2 KBTU/SQFT-YR GROSS-AREA      72.2 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY      19003.96 MBTU      159.9 KBTU/SQFT-YR GROSS-AREA      159.9 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING  
READING, PA 19603  
PH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

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BUILDING 2786 - COMMISSARY

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-----  
MMDDHH HW-BOILE HW-BOILE HW-BOILE  
R R R  
LOAD ELECTRIC FUEL  
USE USE  
BTU/HR BTU/HR BTU/HR

---- ( 1) ---- ( 3) ---- ( 4)

MONTHLY SUMMARY (JAN)

MN	46237.	4069.	75558.
MX	1996311.	85800.	2788605.
SM	529419264.	41504788.	839087488.
AV	711585.	55786.	1127806.

MONTHLY SUMMARY (FEB)

MN	39445.	3471.	64459.
MX	2162302.	85800.	2977863.
SM	457433216.	35402044.	722483840.
AV	680704.	52682.	1075125.

MONTHLY SUMMARY (MAR)

MN	14311.	1259.	23386.
MX	1670047.	85800.	2412521.
SM	291889792.	24436264.	470636640.
AV	392325.	32844.	632576.

MONTHLY SUMMARY (APR)

MN	14311.	1259.	23386.
MX	1327542.	85800.	2011890.
SM	111491880.	9642229.	181342624.
AV	154850.	13392.	251865.

MONTHLY SUMMARY (OCT)

MN	14311.	1259.	23386.
MX	993730.	85800.	1615685.
SM	54773432.	4818414.	89499232.
AV	142639.	12548.	233071.

MONTHLY SUMMARY (NOV)

MN	14311.	1259.	23386.
MX	1544017.	85800.	2265796.
SM	209864832.	18145312.	341315744.
AV	291479.	25202.	474050.

MONTHLY SUMMARY (DEC)

MN	24418.	2149.	39902.
MX	1719874.	85800.	2470307.
SM	462007968.	38212404.	742550464.
AV	620978.	51361.	998052.

ENTTECH ENGINEERING  
 READING, PA 19603  
 PH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR
----( 1)	----( 3)	----( 4)

YEARLY SUMMARY

MN	14311.	1259.	23386.
MX	2162302.	85800.	2977863.
SM	2116880256.	172161456.	3386916096.
AV	447733.	36413.	716353.

BUILDING 2786  
W/VENT, NIGHT SETBACK, E ECONO  
FILE: FTM2786N

ENTECH ENGINEERING READING, PA 19603 SH-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 12/28/1995 BUILDING 2786 - COMMISSARY			15:37:35 SDL RUN 1
PAGE 1- 1									
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	
	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	SUPPLY ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	
	---- ( 5)	---- (47)	---- (70)	---- (78)	---- (49)	---- ( 5)	---- (47)	---- (49)	
MONTHLY SUMMARY (JAN)									
MN	-1130374.	0.000	1409303.	-1251263.	19.612	-243145.	0.000	4.171	
MX	0.	0.000	1807260.	-1251263.	19.612	0.	0.000	4.171	
SM	-156972976.	0.000	719373120.	-563068544.	8825.219	-25980178.	0.000	1877.084	
AV	-348829.	0.000	1598607.	-1251263.	19.612	-57734.	0.000	4.171	
MONTHLY SUMMARY (FEB)									
MN	-1146175.	0.000	1381671.	-1251263.	19.612	-233862.	0.000	4.171	
MX	0.	0.000	1807260.	-1251263.	19.612	0.	0.000	4.171	
SM	-123216448.	0.000	615830208.	-491746560.	7707.358	-20338734.	0.000	1639.320	
AV	-313528.	0.000	1566998.	-1251264.	19.612	-51753.	0.000	4.171	
MONTHLY SUMMARY (MAR)									
MN	-874086.	0.000	1294808.	-1251263.	19.612	-162695.	0.000	4.171	
MX	0.	0.000	1669242.	-1251263.	19.612	0.	0.000	4.171	
SM	-56786452.	0.000	681274048.	-566822400.	8884.054	-7696564.	0.000	1889.598	
AV	-125356.	0.000	1503916.	-1251264.	19.612	-16990.	0.000	4.171	
MONTHLY SUMMARY (APR)									
MN	-622463.	0.000	1307878.	-1251263.	19.612	-105446.	0.000	4.171	
MX	0.	0.000	1630112.	-1251263.	19.612	0.	0.000	4.171	
SM	-13077685.	0.000	637383936.	-548053376.	8589.880	-1159935.	0.000	1827.028	
AV	-29858.	0.000	1455215.	-1251263.	19.612	-2648.	0.000	4.171	
MONTHLY SUMMARY (MAY)									
MN	0.	0.000	1218618.	0.	19.612	0.	0.000	4.171	
MX	0.	76.020	1568888.	0.	19.612	0.	16.685	4.171	
SM	0.	11116.743	603183168.	0.	8531.045	0.	2692.290	1814.515	
AV	0.	25.556	1386628.	0.	19.612	0.	6.189	4.171	
MONTHLY SUMMARY (JUN)									
MN	0.	0.000	1212441.	0.	19.612	0.	0.000	4.171	
MX	0.	130.339	1472445.	0.	19.612	0.	27.851	4.171	
SM	0.	25621.713	590364224.	0.	8589.880	0.	5918.137	1827.029	
AV	0.	58.497	1347864.	0.	19.612	0.	13.512	4.171	
MONTHLY SUMMARY (JUL)									
MN	0.	0.000	1237306.	0.	19.612	0.	0.000	4.171	
MX	0.	135.709	1482159.	0.	19.612	0.	28.969	4.171	
SM	0.	31835.037	588926912.	0.	8531.045	0.	7266.234	1814.515	
AV	0.	73.184	1353855.	0.	19.612	0.	16.704	4.171	

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	SUPPLY ELECTRIC KW	TOT HTG COIL PWR BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- ( 5)	---- (47)	---- (70)	---- (78)	---- (49)	---- ( 5)	---- (47)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	0.000	1237030.	0.	19.612	0.	0.000	4.171
MX	0.	132.263	1472355.	0.	19.612	0.	27.989	4.171
SM	0.	30469.449	614229696.	0.	8884.054	0.	7003.398	1889.598
AV	0.	67.261	1355916.	0.	19.612	0.	15.460	4.171
MONTHLY SUMMARY (SEP)								
MN	0.	0.000	1242917.	0.	19.612	0.	0.000	4.171
MX	0.	113.617	1494753.	0.	19.612	0.	25.428	4.171
SM	0.	18696.824	574897344.	0.	8295.706	0.	4390.317	1764.459
AV	0.	44.201	1359095.	0.	19.612	0.	10.379	4.171
MONTHLY SUMMARY (OCT)								
MN	-374005.	0.000	1267975.	-1251263.	19.612	-66143.	0.000	4.171
MX	0.	64.018	1599287.	0.	19.612	0.	13.751	4.171
SM	-9469885.	6496.888	612710656.	-289041760.	8531.045	-1133358.	1550.609	1814.515
AV	-21770.	14.935	1408530.	-664464.	19.612	-2605.	3.565	4.171
MONTHLY SUMMARY (NOV)								
MN	-779236.	0.000	1361226.	-1251263.	19.612	-146468.	0.000	4.171
MX	0.	0.000	1630112.	-1251263.	19.612	0.	0.000	4.171
SM	-36340496.	0.000	612990656.	-510515520.	8001.532	-3928114.	0.000	1701.890
AV	-89070.	0.000	1502428.	-1251264.	19.612	-9628.	0.000	4.171
MONTHLY SUMMARY (DEC)								
MN	-945868.	0.000	1381671.	-1251263.	19.612	-181477.	0.000	4.171
MX	0.	0.000	1733234.	-1251263.	19.612	0.	0.000	4.171
SM	-122532336.	0.000	684460864.	-548053376.	8589.880	-18260660.	0.000	1827.029
AV	-279754.	0.000	1562696.	-1251263.	19.612	-41691.	0.000	4.171
YEARLY SUMMARY								
MN	-1146175.	0.000	1212441.	-1251263.	19.612	-243145.	0.000	4.171
MX	0.	135.709	1807260.	0.	19.612	0.	28.969	4.171
SM	-518396352.	124236.656	7535624704.	-3517301248.	101960.695	-78497552.	28820.984	21686.580
AV	-99711.	23.896	1449437.	-676534.	19.612	-15099.	5.544	4.171

MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	UH-1	UH-1	UH-1
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	----(70)	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)
MONTHLY SUMMARY (JAN)								
MN	297588.	-266138.	-460312.	30.794	-440973.	-209743.	0.000	0.
MX	381620.	-266138.	-65526.	30.794	-440973.	-21683.	0.000	0.
SM	151907424.	-119762144.	-162767776.	13857.481	-198438064.	-43700012.	0.000	0.
AV	337572.	-266138.	-361706.	30.794	-440973.	-97111.	0.000	0.
MONTHLY SUMMARY (FEB)								
MN	291753.	-266138.	-476377.	30.794	-440973.	-346072.	0.000	0.
MX	381620.	-266138.	-29109.	30.794	-440973.	-12651.	0.000	0.
SM	130040784.	-104592272.	-135987664.	12102.201	-173302560.	-40936224.	0.000	0.
AV	330893.	-266138.	-346025.	30.794	-440973.	-104163.	0.000	0.
MONTHLY SUMMARY (MAR)								
MN	273411.	-266138.	-468503.	30.794	-440973.	-221216.	0.000	0.
MX	352476.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	143883952.	-120560560.	-110577928.	13949.865	-199760992.	-31636336.	0.000	0.
AV	317625.	-266138.	-244101.	30.794	-440974.	-69837.	0.000	0.
MONTHLY SUMMARY (APR)								
MN	276171.	-266138.	-455473.	30.794	-440973.	-156709.	0.000	0.
MX	344214.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	134940016.	-116568488.	-48136520.	13487.948	-193146384.	-13775235.	0.000	0.
AV	308082.	-266138.	-109901.	30.794	-440973.	-31450.	0.000	0.
MONTHLY SUMMARY (MAY)								
MN	257323.	0.	0.	30.794	0.	0.	0.000	0.
MX	331286.	0.	0.	30.794	0.	0.	0.000	0.
SM	127251032.	0.	0.	13395.565	0.	0.	0.000	0.
AV	292531.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (JUN)								
MN	256634.	0.	0.	30.794	0.	0.	0.000	0.
MX	307837.	0.	0.	30.794	0.	0.	0.000	0.
SM	124346952.	0.	0.	13487.948	0.	0.	0.000	0.
AV	283897.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (JUL)								
MN	261269.	0.	0.	30.794	0.	0.	0.000	0.
MX	311705.	0.	0.	30.794	0.	0.	0.000	0.
SM	123957848.	0.	0.	13395.565	0.	0.	0.000	0.
AV	284961.	0.	0.	30.794	0.	0.	0.000	0.

	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	UH-1	UH-1	UH-1
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	----(70)	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)
MONTHLY SUMMARY (AUG)								
MN	261648.	0.	0.	30.794	0.	0.	0.000	0.
MX	308320.	0.	0.	30.794	0.	0.	0.000	0.
SM	129292520.	0.	0.	13949.865	0.	0.	0.000	0.
AV	285414.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (SEP)								
MN	262542.	0.	0.	30.794	0.	0.	0.000	0.
MX	315631.	0.	0.	30.794	0.	0.	0.000	0.
SM	121217728.	0.	0.	13026.032	0.	0.	0.000	0.
AV	286567.	0.	0.	30.794	0.	0.	0.000	0.
MONTHLY SUMMARY (OCT)								
MN	268077.	-266138.	-341475.	30.794	-440973.	-115903.	0.000	0.
MX	337705.	0.	0.	30.794	0.	0.	0.000	0.
SM	129293872.	-61477900.	-17868968.	13395.565	-101864840.	-5736802.	0.000	0.
AV	297227.	-141329.	-41078.	30.794	-234172.	-13188.	0.000	0.
MONTHLY SUMMARY (NOV)								
MN	288242.	-266138.	-449474.	30.794	-440973.	-150800.	0.000	0.
MX	344214.	-266138.	0.	30.794	-440973.	0.	0.000	0.
SM	129525568.	-108584344.	-75306240.	12564.116	-179917168.	-19695312.	0.000	0.
AV	317465.	-266138.	-184574.	30.794	-440973.	-48273.	0.000	0.
MONTHLY SUMMARY (DEC)								
MN	291753.	-266138.	-477988.	30.794	-440973.	-207462.	0.000	0.
MX	365989.	-266138.	-35174.	30.794	-440973.	-13362.	0.000	0.
SM	144540640.	-116568496.	-146323520.	13487.948	-193146400.	-38478232.	0.000	0.
AV	330001.	-266138.	-334072.	30.794	-440974.	-87850.	0.000	0.
YEARLY SUMMARY								
MN	256634.	-266138.	-477988.	30.794	-440973.	-346072.	0.000	0.
MX	381620.	0.	0.	30.794	0.	0.	0.000	0.
SM	1590198272.	-748114176.	-696968640.	160100.094	-1239576320.	-193958144.	0.000	0.
AV	305866.	-143896.	-134058.	30.794	-238426.	-37307.	0.000	0.



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BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

S I T E E N E R G Y													* SOURCE
MONTH	2 TOTAL HEAT LOAD	3 TOTAL COOLING LOAD	4 TOTAL ELECTR LOAD	5 RCVRED ENERGY	6 WASTED RCVRABL ENERGY	7 FUEL INPUT COOLING	8 ELEC INPUT COOLING	9 FUEL INPUT HEATING	10 ELEC INPUT HEATING	11 FUEL INPUT ELECT	12 TOTAL FUEL INPUT	13 TOTAL SITE ENERGY	14 TOTAL SOURCE ENERGY
JAN	529.3	0.0	443.6 129.9E	0.0	0.0	0.0	0.0 0.0E	839.0	47.4 13.9E	0.0	839.0	1282.6	2171.0
FEB	457.3	0.0	391.1 114.6E	0.0	0.0	0.0	0.0 0.0E	722.4	40.8 11.9E	0.0	722.4	1113.5	1896.9
MAR	291.8	0.0	418.9 122.7E	0.0	0.0	0.0	0.0 0.0E	470.5	30.4 8.9E	0.0	470.5	889.4	1728.4
APR	111.6	0.0	381.9 111.8E	0.0	0.0	0.0	0.0 0.0E	181.5	15.4 4.5E	0.0	181.5	563.4	1328.3
MAY	0.0	0.0	415.4 121.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	415.4	1247.5
JUN	0.0	0.0	476.5 139.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	476.5	1431.1
JUL	0.0	0.0	504.4 147.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	504.4	1514.8
AUG	0.0	0.0	509.9 149.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	509.9	1531.3
SEP	0.0	0.0	438.2 128.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	438.2	1315.9
OCT	54.7	0.0	405.1 118.7E	0.0	0.0	0.0	0.0 0.0E	89.4	7.9 2.3E	0.0	89.4	494.5	1306.1
NOV	209.8	0.0	376.1 110.2E	0.0	0.0	0.0	0.0 0.0E	341.3	23.9 7.0E	0.0	341.3	717.4	1470.7
DEC	461.9	0.0	431.6 126.4E	0.0	0.0	0.0	0.0 0.0E	742.5	44.2 12.9E	0.0	742.5	1174.1	2038.7
*****	2116.4	0.0	5192.8 1520.9E	0.0	0.0	0.0	0.0 0.0E	3386.6	209.9 61.5E	0.0	3386.6	8579.5	18980.8

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

DOB-2.1D 12/28/1995 15:37:35 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	443.555	839.034
JAN	PEAK (KBTU)	873.069	2788.600
	DY/HR	17/10	31/ 6
	TOTAL (MBTU)	391.126	722.387
FEB	PEAK (KBTU)	873.911	2977.913
	DY/HR	12/13	12/ 6
	TOTAL (MBTU)	418.862	470.540
MAR	PEAK (KBTU)	873.141	2404.731
	DY/HR	4/10	5/ 6
	TOTAL (MBTU)	381.897	181.506
APR	PEAK (KBTU)	872.725	1992.495
	DY/HR	8/11	9/ 6
	TOTAL (MBTU)	415.424	0.000
MAY	PEAK (KBTU)	1094.493	0.000
	DY/HR	21/17	31/ 1
	TOTAL (MBTU)	476.540	0.000
JUN	PEAK (KBTU)	1318.089	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	504.432	0.000
JUL	PEAK (KBTU)	1340.238	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	509.916	0.000
AUG	PEAK (KBTU)	1325.129	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	438.203	0.000
SEP	PEAK (KBTU)	1252.603	0.000
	DY/HR	2/14	30/ 1
	TOTAL (MBTU)	405.149	89.396
OCT	PEAK (KBTU)	1043.495	1585.456
	DY/HR	13/16	16/ 6
	TOTAL (MBTU)	376.104	341.285
NOV	PEAK (KBTU)	872.687	2241.357
	DY/HR	25/ 7	25/ 6
	TOTAL (MBTU)	431.635	742.495
DEC	PEAK (KBTU)	873.055	2469.255
	DY/HR	6/12	21/ 6
	ONE YEAR	5192.842	3386.642
	USE/PEAK	1340.238	2977.913

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15:37:35 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	2116.4	100.0
LOAD SATISFIED	2116.4	100.0
TOTAL LOAD ON PLANT	2116.4	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	5192.8	100.0
LOAD SATISFIED	5192.8	100.0
TOTAL LOAD ON PLANT	5192.8	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

DOR-2.1D 12/28/1995 15:37:35 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2116.4	2116.4	0.000	0.000	0
ELECTRICAL LOADS	5192.8	5192.8	0.000	0.000	0

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995 15:37:35 PDL RUN 1  
BUILDING 2786 - COMMISSARY  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG	MAX	MON											
	OPER RATIO	LOAD (MBTU)	DAY	HR	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
HW-BOILER	0.115	2.162	2	12	6	3.900	4728							

ENTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D 12/28/1995	15:37:35 PDL RUN 1
READING, PA 19603	FT. GEORGE G. MEADE	BUILDING 2786 - COMMISSARY	
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD	

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# EQUIPMENT TOTALS

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HW-BOILER	97.3		
NOMINAL SIZE (MBTU)		3.900	
NUMBER INSTALLED		1	
FIRST COST (K\$)	88.3	88.3	
ANNUAL COST (K\$)	1.1	1.1	
CYCLICAL COST (K\$)	7.9	7.9	
-----TOTAL----- (K\$)		97.3	
<hr/>			
EQUIPMENT TOTAL	97.3		

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	172.21	3386.62
SPACE COOL	554.96	0.00
HVAC AUX	1142.57	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	2481.20	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	841.96	0.00
	-----	-----
TOTAL	5192.90	3386.62

TOTAL SITE ENERGY      8579.48 MBTU      72.2 KBTU/SQFT-YR GROSS-AREA      72.2 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY      18980.76 MBTU      159.7 KBTU/SQFT-YR GROSS-AREA      159.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.



ENTTECH ENGINEERING  
READING, PA 19603  
PH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/28/1995  
BUILDING 2786 - COMMISSARY

15:37:35 PDL RUN 1

PAGE 1- 1

MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR
	---- ( 1 )	---- ( 3 )	---- ( 4 )
MONTHLY SUMMARY (JAN)			
MN	46241.	4069.	75564.
MX	1996307.	85800.	2788600.
SM	529319168.	41516372.	839033536.
AV	711451.	55802.	1127733.
MONTHLY SUMMARY (FEB)			
MN	39450.	3472.	64467.
MX	2162346.	85800.	2977913.
SM	457304032.	35412028.	722386432.
AV	680512.	52696.	1074980.
MONTHLY SUMMARY (MAR)			
MN	14311.	1259.	23386.
MX	1663338.	85800.	2404731.
SM	291801888.	24437534.	470540032.
AV	392207.	32846.	632446.
MONTHLY SUMMARY (APR)			
MN	14311.	1259.	23386.
MX	1311089.	85800.	1992495.
SM	111586392.	9652111.	181505248.
AV	154981.	13406.	252091.
MONTHLY SUMMARY (OCT)			
MN	14311.	1259.	23386.
MX	970209.	85378.	1585456.
SM	54705524.	4814087.	89396472.
AV	142462.	12537.	232803.
MONTHLY SUMMARY (NOV)			
MN	14311.	1259.	23386.
MX	1523092.	85800.	2241357.
SM	209814976.	18150828.	341284800.
AV	291410.	25209.	474007.
MONTHLY SUMMARY (DEC)			
MN	24424.	2149.	39912.
MX	1718966.	85800.	2469255.
SM	461898240.	38226960.	742495360.
AV	620831.	51380.	997978.

HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR
----( 1)	----( 3)	----( 4)

YEARLY SUMMARY

MN	14311.	1259.	23386.
MX	2162346.	85800.	2977913.
SM	2116430336.	172209920.	3386641920.
AV	447638.	36423.	716295.

# FT. MEADE, MARYLAND

**Building:** 2789

**Square feet** 8,998

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Air Space	1.10
Concrete Block	1.72
Inside Surface	0.68
Total R-Value	<b>4.11</b>
Total U-Value	<b>0.24</b>

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.33
2" Insulation Rigid	12.00
Metal Deck	0.00
Air Space	1.10
Acoustical Tile	1.89
Inside Surface	0.61
Total R-Value	<b>16.10</b>
Total U-Value	<b>0.06</b>

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	15
No. of Basement Levels	
Gross Floor Area	9000
Roof Area	9000
Estimated Infiltration (cfm)	1350
Gross Wall Area	4545
Door Area	300
Gross Window Area	260
Other	
Net Wall Area	3985

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	1.00
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (3985 \times 0.24) + (9000 \times 0.06) + (300 \times 1.0) + (260 \times 0.6) = 2,004$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2789

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	AHU-1	AHU-2	Boiler					
COOLING:								
Type of Cooling	1	1						
Air Side	1	1						
Location in Building	Bldg Front	Bldg Rear						
Area Sq. Feet	4500	4500						
Supply CFM	3800	5100						
Supply Fan HP	2	3						
O.A. CFM or %	20%	20%						
Return CFM								
Return Fan HP								
Chiller Tonnage	20	20						
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP								
HEATING:								
Type of Heating			1					
Source			1					
MBTUH			500					
Hot Water Pump HP			1/2					
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling			Type of Heating					
(1) Air Cooled DX	(4) Water Cooled Chiller			(1) Boiler Hot Water			(4) Furnace	
(2) Water Cooled DX	(5) Central Plant Supplied			(2) Boiler Steam			(5) Electric	
(3) Air Cooled Chiller	(6) Other			(3) Steam to Hot Water Converter				
Air Side			Heating Source					
(1) Single Zone	(4) VAV w/ Reheat			(1) Natural Gas			(4) Oil	
(2) Multi-Zone	(5) Constant Volume Reheat			(2) Central Plant Steam			(5) Electric	
(3) VAV	(6) Heating and Ventilating			(3) Central Plant Hot Water				

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 2789

Case: 1

Description: POST OFFICE

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	34.482	256	0.0	0
Vent/Recirculation	11.344	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	45.825	256	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	44,448 cf /yr	256 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-2

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	34.482	256	0.0	0
Vent/Recirculation	11.344	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	45.825	256	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	44,448 cf /yr	256 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: HOT WATER BOILER

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	37.500	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	37.500	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	36,372 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: CONDENSERS				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	589	0.0	0
Duty Cycling	0.000	1,117	0.0	0
Demand Limiting	0.000	0	0.3	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	1,706	0.3	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	70,720	0.0	0
Totals	0.000	70,720	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2789

Description	Value	Units
Natural gas (methane)	125,268	cf /yr
Electrical Energy	72,938	kWh/yr
Electrical Demand Reduction	0.3	kW
Labor Savings	16	mh/yr

# FT. MEADE, MARYLAND

**Building:** 2790

**Square feet** 78,343

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Concrete Block	1.72
1" Rigid Insulation	6.00
Gyp Board	0.56
Inside Surface	0.68
Total R-Value	9.57
Total U-Value	0.10

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.33
Metal Deck	0.00
2" Rigid Insulation	12.00
Air Space	1.11
Acoustical Tile Clg	1.89
Inside Surface	0.61
Total R-Value	16.11
Total U-Value	0.06

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	20
No. of Basement Levels	
Gross Floor Area	78343
Roof Area	78343
Estimated Infiltration (cfm)	11500
Gross Wall Area	37812
Door Area	
Gross Window Area	1310
Other	
Net Wall Area	36502

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wc/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	
Door Type 2	
Door Type 3	





**BUILDING NO. 2790**

[illegible]

BUILDING NO. 2790

EQUIPMENT		SYSTEM NUMBER							
	1	2	3	4	5	6	7	8	
Equipment Name	AC-1	AC-2	AC-3	AC-4	AC-5	AC-6-12	AC-13-16,19	AC,17,18,19,20	
COOLING:									
Type of Cooling	1	1	1	1	1	1	1	1	
Air Side	1	1	1	1	1	1	1	1	
Location in Building	Minute Mart	Minute Mart	Food Court	Food Court	Food Court	Food Court	PX	PX	
Area Sq. Feet	7500	7500	1520	1520	1520	1520	1260	3528	
Supply CFM	7120	8080	4300	10000	5230	6240	2000	3000	
Supply Fan HP	7 1/2	5	1 1/2	1	1	1	2	5	
O.A. CFM or %	1580	1500	4300	1800	640	785	150	350	
Return CFM									
Return Fan HP									
Chiller Tonnage	16	20	23	24	10	15	5	8	
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
HEATING:									
Type of Heating									
Source	1	1	1	1	1	1	1	1	
MBTUH									
Hot Water Pump HP									
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling		Type of Heating							
(1) Air Cooled DX	(1) Water Cooled Chiller						(4) Furnace		
(2) Water Cooled DX	(5) Central Plant Supplied								
(3) Air Cooled Chiller	(6) Other								
Air Side		Heating Source							
(1) Single Zone	(4) VAV w/ Reheat						(4) Oil		
(2) Multi-Zone	(5) Constant Volume Reheat						(5) Electric		
(3) VAV	(6) Heating and Ventilating						(3) Central Plant Hot Water		

3-PROJCTSM130.075583760F01IDMANT-WK4

**UMCS FEASIBILITY STUDY  
FORT MEADE  
BUILDING 2790 - POST EXCHANGE  
DOE ENERGY SAVINGS SUMMARY**

	Space Heat		Space Cool		HVAC Aux		Lights		Misc Equip		TOTAL		TOTAL	
	Electricity mmBtu	Natural Gas mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Electricity mmBtu	Natural Gas mmBtu	Electricity Kwh	Natural Gas MCF
Existing		5,113.3	879.7	1,222.6		2,778.5	396.2	5,276.9	5,113.3		1,546,124	4,959.5		
New w/Night Setback		3,131.8	775.9	784.3		2,778.5	396.2	4,734.9	3,131.8		1,387,313	3,037.6		
Night Setback Savings								542.0	1,981.5		158,810	1,921.9		
New w/Night Setback and Vent/Recirc		2,869.3	777.9	781.9		2,778.5	396.2	4,734.5	2,869.3		1,387,181	2,783.1		
Vent/Recirc Savings								0.4	262.4		132	254.6		
New w/Night Setback & Vent/Recirc & Economizer		1,634.8	734.0	782.0		2,778.5	396.2	4,690.6	1,634.8		1,374,333	1,585.7		
Economizer Savings								43.9	1,234.5		12,848	1,197.4		

ENTECH ENGINEERING READING, PA 19603 SH-1 = HOURLY-REPORT			BZDOB - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 1/19/1996 BUILDING 2790 - EXISTING		10:13:49 SDL RUN 1
PAGE 1- 1								
MMDDHH	AC-17	AC-17	AC-17	AC-17	AC-17	AC-18	AC-18	AC-18
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	HEATING GAS BTU/HR	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- (47)	---- (49)	---- (45)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	0.000	2.165	1600.	131833.	-182915.	1600.	0.000	2.106
MX	0.007	2.165	134779.	169898.	-182915.	118337.	0.001	2.106
SM	0.026	1610.982	33992348.	112594256.	-136088736.	25816714.	0.001	1567.087
AV	0.000	2.165	45689.	151336.	-182915.	34700.	0.000	2.106
MONTHLY SUMMARY (FEB)								
MN	0.000	2.165	1600.	130534.	-182915.	1600.	0.000	2.106
MX	0.019	2.165	135178.	169898.	-182915.	118222.	0.042	2.106
SM	0.019	1455.081	28055404.	99931416.	-122918864.	21674042.	0.104	1415.433
AV	0.000	2.165	41749.	148707.	-182915.	32253.	0.000	2.106
MONTHLY SUMMARY (MAR)								
MN	0.000	2.165	1600.	121723.	-182915.	1600.	0.000	2.106
MX	0.034	2.165	98102.	157666.	-182915.	85132.	0.019	2.106
SM	0.086	1610.982	15717515.	106543432.	-136088736.	10822541.	0.043	1567.087
AV	0.000	2.165	21126.	143204.	-182915.	14546.	0.000	2.106
MONTHLY SUMMARY (APR)								
MN	0.000	2.165	1600.	123570.	-182915.	1600.	0.000	2.106
MX	3.418	2.165	81986.	153244.	-182915.	68570.	4.356	2.106
SM	45.319	1559.015	5987736.	99779808.	-131698784.	3766426.	109.633	1516.536
AV	0.063	2.165	8316.	138583.	-182915.	5231.	0.152	2.106
MONTHLY SUMMARY (MAY)								
MN	0.000	2.165	1600.	114560.	-182915.	1600.	0.000	2.106
MX	8.808	2.165	73282.	148199.	-182915.	63100.	8.801	2.106
SM	1585.779	1610.982	6662201.	98319360.	-136088736.	5485239.	1692.692	1567.087
AV	2.131	2.165	8955.	132150.	-182915.	7373.	2.275	2.106
MONTHLY SUMMARY (JUN)								
MN	0.000	2.165	1600.	115327.	-182915.	1600.	0.000	2.106
MX	12.800	2.165	26477.	142339.	-182915.	21886.	12.496	2.106
SM	3234.184	1559.015	1850723.	93578688.	-131698784.	1641665.	3251.267	1516.536
AV	4.492	2.165	2570.	129970.	-182915.	2280.	4.516	2.106
MONTHLY SUMMARY (JUL)								
MN	0.000	2.165	1600.	116908.	-182915.	1600.	0.000	2.106
MX	12.878	2.165	10383.	145769.	-182915.	7441.	12.549	2.106
SM	4033.439	1610.982	1241136.	97971472.	-136088736.	1209860.	3997.184	1567.087
AV	5.421	2.165	1668.	131682.	-182915.	1626.	5.373	2.106

	AC-17	AC-17	AC-17	AC-17	AC-17	AC-18	AC-18	AC-18
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	HEATING GAS BTU/HR	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- (47)	---- (49)	---- (45)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.000	2.165	1600.	117011.	-182915.	1600.	0.000	2.106
MX	13.005	2.165	34751.	143266.	-182915.	30870.	12.692	2.106
SM	3860.124	1610.982	1697385.	98163288.	-136088736.	1552077.	3856.527	1567.087
AV	5.188	2.165	2281.	131940.	-182915.	2086.	5.184	2.106
MONTHLY SUMMARY (SEP)								
MN	0.000	2.165	1600.	118532.	-182915.	1600.	0.000	2.106
MX	11.878	2.165	41181.	145351.	-182915.	34290.	11.675	2.106
SM	2496.941	1559.015	3231213.	94298336.	-131698784.	2686033.	2550.479	1516.536
AV	3.468	2.165	4488.	130970.	-182915.	3731.	3.542	2.106
MONTHLY SUMMARY (OCT)								
MN	0.000	2.165	1600.	118097.	-182915.	1600.	0.000	2.106
MX	7.587	2.165	67549.	150347.	-182915.	58895.	7.745	2.106
SM	989.433	1610.982	7928901.	100166456.	-136088736.	6216482.	1097.491	1567.087
AV	1.330	2.165	10657.	134632.	-182915.	8355.	1.475	2.106
MONTHLY SUMMARY (NOV)								
MN	0.000	2.165	1600.	129246.	-182915.	1600.	0.000	2.106
MX	5.506	2.165	80239.	158959.	-182915.	71404.	5.896	2.106
SM	86.181	1559.015	12948151.	102756056.	-131698784.	8887927.	110.693	1516.536
AV	0.120	2.165	17984.	142717.	-182915.	12344.	0.154	2.106
MONTHLY SUMMARY (DEC)								
MN	0.000	2.165	1600.	132849.	-182915.	1600.	0.000	2.106
MX	0.051	2.165	109116.	162939.	-182915.	95070.	0.032	2.106
SM	0.133	1610.982	27601750.	110375760.	-136088736.	20528826.	0.076	1567.087
AV	0.000	2.165	37099.	148355.	-182915.	27593.	0.000	2.106
YEARLY SUMMARY								
MN	0.000	2.165	1600.	114560.	-182915.	1600.	0.000	2.106
MX	13.005	2.165	135178.	169898.	-182915.	118337.	12.692	2.106
SM	16331.666	18968.020	146914464.	1214478336.	-1602335104.	110287824.	16666.191	18451.184
AV	1.864	2.165	16771.	138639.	-182915.	12590.	1.903	2.106

ENTECH ENGINEERING  
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 SH-1 - HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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MMDDHH	AC-18	AC-18	AC-19	AC-19	AC-19	AC-19	AC-19	AC-21
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR
	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)
MONTHLY SUMMARY (JAN)								
MN	128440.	-177931.	1600.	0.000	2.106	128440.	-177931.	1600.
MX	165524.	-177931.	118337.	0.001	2.106	165524.	-177931.	135462.
SM	109699128.	-132380472.	25816714.	0.001	1567.087	109699128.	-132380472.	33656308.
AV	147445.	-177931.	34700.	0.000	2.106	147445.	-177931.	45237.
MONTHLY SUMMARY (FEB)								
MN	127174.	-177931.	1600.	0.000	2.106	127174.	-177931.	1600.
MX	165524.	-177931.	118222.	0.042	2.106	165524.	-177931.	135676.
SM	97368208.	-119569464.	21674042.	0.104	1415.433	97368208.	-119569464.	27768428.
AV	144893.	-177931.	32253.	0.000	2.106	144893.	-177931.	41322.
MONTHLY SUMMARY (MAR)								
MN	119187.	-177931.	1600.	0.000	2.106	119187.	-177931.	1600.
MX	153607.	-177931.	85132.	0.019	2.106	153607.	-177931.	98417.
SM	103857024.	-132380472.	10822541.	0.043	1567.087	103857024.	-132380472.	15375055.
AV	139593.	-177931.	14546.	0.000	2.106	139593.	-177931.	20665.
MONTHLY SUMMARY (APR)								
MN	120389.	-177931.	1600.	0.000	2.106	120389.	-177931.	1600.
MX	149299.	-177931.	68570.	4.356	2.106	149299.	-177931.	82370.
SM	97408584.	-128110136.	3766426.	109.633	1516.536	97408584.	-128110136.	5875528.
AV	135290.	-177931.	5231.	0.152	2.106	135290.	-177931.	8160.
MONTHLY SUMMARY (MAY)								
MN	111611.	-177931.	1600.	0.000	2.106	111611.	-177931.	1600.
MX	144384.	-177931.	63100.	8.801	2.106	144384.	-177931.	73705.
SM	95738856.	-132380472.	5485239.	1692.692	1567.087	95738856.	-132380472.	6628746.
AV	128681.	-177931.	7373.	2.275	2.106	128681.	-177931.	8910.
MONTHLY SUMMARY (JUN)								
MN	112348.	-177931.	1600.	0.000	2.106	112348.	-177931.	1600.
MX	138679.	-177931.	21886.	12.496	2.106	138679.	-177931.	26590.
SM	91117064.	-128110136.	1641665.	3251.267	1516.536	91117064.	-128110136.	1837815.
AV	126551.	-177931.	2280.	4.516	2.106	126551.	-177931.	2553.
MONTHLY SUMMARY (JUL)								
MN	113898.	-177931.	1600.	0.000	2.106	113898.	-177931.	1600.
MX	142123.	-177931.	7441.	12.549	2.106	142123.	-177931.	10035.
SM	95425800.	-132380472.	1209860.	3997.184	1567.087	95425800.	-132380472.	1239413.
AV	128260.	-177931.	1626.	5.373	2.106	128260.	-177931.	1666.

	AC-18	AC-18	AC-19	AC-19	AC-19	AC-19	AC-19	AC-21
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR
	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)
MONTHLY SUMMARY (AUG)								
MN	114065.	-177931.	1600.	0.000	2.106	114065.	-177931.	1600.
MX	139586.	-177931.	30870.	12.692	2.106	139586.	-177931.	34875.
SM	95571792.	-132380472.	1552077.	3856.527	1567.087	95571792.	-132380472.	1692983.
AV	128457.	-177931.	2086.	5.184	2.106	128457.	-177931.	2276.
MONTHLY SUMMARY (SEP)								
MN	115457.	-177931.	1600.	0.000	2.106	115457.	-177931.	1600.
MX	141406.	-177931.	34290.	11.675	2.106	141406.	-177931.	40572.
SM	91824552.	-128110136.	2686033.	2550.479	1516.536	91824552.	-128110136.	3108459.
AV	127534.	-177931.	3731.	3.542	2.106	127534.	-177931.	4317.
MONTHLY SUMMARY (OCT)								
MN	115057.	-177931.	1600.	0.000	2.106	115057.	-177931.	1600.
MX	146476.	-177931.	58895.	7.745	2.106	146476.	-177931.	66807.
SM	97580248.	-132380472.	6216482.	1097.491	1567.087	97580248.	-132380472.	7654722.
AV	131156.	-177931.	8355.	1.475	2.106	131156.	-177931.	10289.
MONTHLY SUMMARY (NOV)								
MN	125919.	-177931.	1600.	0.000	2.106	125919.	-177931.	1600.
MX	155621.	-177931.	71404.	5.896	2.106	155621.	-177931.	80530.
SM	100171064.	-128110136.	8887927.	110.693	1516.536	100171064.	-128110136.	12571742.
AV	139126.	-177931.	12344.	0.154	2.106	139126.	-177931.	17461.
MONTHLY SUMMARY (DEC)								
MN	129715.	-177931.	1600.	0.000	2.106	129715.	-177931.	1600.
MX	158744.	-177931.	95070.	0.032	2.106	158744.	-177931.	108988.
SM	107558976.	-132380472.	20528826.	0.076	1567.087	107558976.	-132380472.	27294386.
AV	144569.	-177931.	27593.	0.000	2.106	144569.	-177931.	36686.
YEARLY SUMMARY								
MN	111611.	-177931.	1600.	0.000	2.106	111611.	-177931.	1600.
MX	165524.	-177931.	118337.	12.692	2.106	165524.	-177931.	135676.
SM	1183321344.	-1558673152.	110287824.	16666.191	18451.184	1183321344.	-1558673152.	144703584.
AV	135082.	-177931.	12590.	1.903	2.106	135082.	-177931.	16519.

MMDDHH	AC-21	AC-21	AC-21	AC-21	AC-25	AC-25	AC-25	AC-25
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR
	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)
MONTHLY SUMMARY (JAN)								
MN	0.000	2.189	133190.	-184909.	1600.	0.000	2.248	136583.
MX	0.020	2.189	171647.	-184909.	147269.	0.012	2.248	176019.
SM	0.020	1628.541	113753344.	-137571984.	40305636.	0.044	1672.437	116649432.
AV	0.000	2.189	152894.	-184909.	54174.	0.000	2.248	156787.
MONTHLY SUMMARY (FEB)								
MN	0.000	2.189	131878.	-184909.	1600.	0.000	2.248	135237.
MX	0.020	2.189	171647.	-184909.	146471.	0.037	2.248	176019.
SM	0.032	1470.940	100960568.	-124258568.	33017978.	0.050	1510.588	103526240.
AV	0.000	2.189	150239.	-184909.	49134.	0.000	2.248	154057.
MONTHLY SUMMARY (MAR)								
MN	0.000	2.189	122976.	-184909.	1600.	0.000	2.248	126108.
MX	0.039	2.189	159289.	-184909.	107774.	0.008	2.248	163346.
SM	0.085	1628.541	107643264.	-137571984.	19471424.	0.014	1672.437	110360736.
AV	0.000	2.189	144682.	-184909.	26171.	0.000	2.248	148334.
MONTHLY SUMMARY (APR)								
MN	0.000	2.189	124842.	-184909.	1600.	0.000	2.248	127613.
MX	3.627	2.189	154822.	-184909.	91364.	2.858	2.248	158765.
SM	49.692	1576.007	100812032.	-133134184.	7648168.	29.764	1618.487	103226600.
AV	0.069	2.189	140017.	-184909.	10622.	0.041	2.248	143370.
MONTHLY SUMMARY (MAY)								
MN	0.000	2.189	115740.	-184909.	1600.	0.000	2.248	118688.
MX	8.914	2.189	149725.	-184909.	80962.	9.022	2.248	153539.
SM	1603.356	1628.541	99328856.	-137571984.	7633266.	1533.348	1672.437	101902960.
AV	2.155	2.189	133507.	-184909.	10260.	2.061	2.248	136966.
MONTHLY SUMMARY (JUN)								
MN	0.000	2.189	116517.	-184909.	1600.	0.000	2.248	119490.
MX	12.915	2.189	143805.	-184909.	30269.	13.225	2.248	147787.
SM	3261.498	1576.007	94535808.	-133134184.	2029009.	3266.604	1618.487	96996456.
AV	4.530	2.189	131300.	-184909.	2818.	4.537	2.248	134717.
MONTHLY SUMMARY (JUL)								
MN	0.000	2.189	118111.	-184909.	1600.	0.000	2.248	121120.
MX	13.008	2.189	147179.	-184909.	13050.	13.335	2.248	151000.
SM	4072.302	1628.541	98967768.	-137571984.	1274254.	4104.737	1672.437	101540504.
AV	5.474	2.189	133021.	-184909.	1713.	5.517	2.248	136479.



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	AC-21	AC-21	AC-21	AC-21	AC-25	AC-25	AC-25	AC-25
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR
	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)
MONTHLY SUMMARY (AUG)								
MN	0.000	2.189	118199.	-184909.	1600.	0.000	2.248	121162.
MX	13.141	2.189	144742.	-184909.	37929.	13.457	2.248	148463.
SM	3914.073	1628.541	99142136.	-137571984.	1823924.	3917.594	1672.437	101751656.
AV	5.261	2.189	133256.	-184909.	2452.	5.266	2.248	136763.
MONTHLY SUMMARY (SEP)								
MN	0.000	2.189	119722.	-184909.	1600.	0.000	2.248	122778.
MX	12.077	2.189	146703.	-184909.	46410.	12.277	2.248	150773.
SM	2554.837	1576.007	95237368.	-133134184.	3682884.	2496.614	1618.487	97733152.
AV	3.548	2.189	132274.	-184909.	5115.	3.468	2.248	135740.
MONTHLY SUMMARY (OCT)								
MN	0.000	2.189	119312.	-184909.	1600.	0.000	2.248	122351.
MX	7.802	2.189	151894.	-184909.	74092.	7.615	2.248	155763.
SM	1028.545	1628.541	101189256.	-137571984.	9335572.	933.741	1672.437	103780312.
AV	1.382	2.189	136007.	-184909.	12548.	1.255	2.248	139490.
MONTHLY SUMMARY (NOV)								
MN	0.000	2.189	130576.	-184909.	1600.	0.000	2.248	133250.
MX	5.656	2.189	160665.	-184909.	86803.	5.238	2.248	164041.
SM	89.513	1576.007	103819880.	-133134184.	16270065.	68.176	1618.487	106439040.
AV	0.124	2.189	144194.	-184909.	22597.	0.095	2.248	147832.
MONTHLY SUMMARY (DEC)								
MN	0.000	2.189	134341.	-184909.	1600.	0.000	2.248	137044.
MX	0.052	2.189	164616.	-184909.	119324.	0.011	2.248	168809.
SM	0.163	1628.541	111514400.	-137571984.	33119062.	0.021	1672.437	114338256.
AV	0.000	2.189	149885.	-184909.	44515.	0.000	2.248	153680.
YEARLY SUMMARY								
MN	0.000	2.189	115740.	-184909.	1600.	0.000	2.248	118688.
MX	13.141	2.189	171647.	-184909.	147269.	13.457	2.248	176019.
SM	16574.117	19174.758	1226904576.	-1619799296.	175611232.	16350.709	19691.598	1258245376.
AV	1.892	2.189	140058.	-184909.	20047.	1.867	2.248	143635.

MMDDHH	AC-25	AC-22	AC-22	AC-22	AC-22	AC-22	AC-23	AC-23
	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW
	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)
MONTHLY SUMMARY (JAN)								
MN	-189893.	1600.	0.000	2.183	132851.	-184410.	1600.	0.000
MX	-189893.	130752.	0.039	2.183	171210.	-184410.	130752.	0.039
SM	-141280096.	31741898.	0.043	1624.151	113464168.	-137201232.	31741898.	0.043
AV	-189893.	42664.	0.000	2.183	152506.	-184410.	42664.	0.000
MONTHLY SUMMARY (FEB)								
MN	-189893.	1600.	0.000	2.183	131542.	-184410.	1600.	0.000
MX	-189893.	131275.	0.000	2.183	171210.	-184410.	131275.	0.000
SM	-127607824.	26257300.	0.000	1466.975	100705472.	-123923688.	26257300.	0.000
AV	-189893.	39073.	0.000	2.183	149859.	-184410.	39073.	0.000
MONTHLY SUMMARY (MAR)								
MN	-189893.	1600.	0.000	2.183	122896.	-184410.	1600.	0.000
MX	-189893.	94785.	0.048	2.183	158883.	-184410.	94785.	0.048
SM	-141280096.	14175983.	0.107	1624.151	107382200.	-137201232.	14175983.	0.107
AV	-189893.	19054.	0.000	2.183	144331.	-184410.	19054.	0.000
MONTHLY SUMMARY (APR)								
MN	-189893.	1600.	0.000	2.183	124524.	-184410.	1600.	0.000
MX	-189893.	78802.	3.838	2.183	154428.	-184410.	78802.	3.838
SM	-136722672.	5305051.	63.319	1571.759	100607640.	-132775384.	5305051.	63.319
AV	-189893.	7368.	0.088	2.183	139733.	-184410.	7368.	0.088
MONTHLY SUMMARY (MAY)								
MN	-189893.	1600.	0.000	2.183	115445.	-184410.	1600.	0.000
MX	-189893.	70724.	9.008	2.183	149344.	-184410.	70724.	9.008
SM	-141280096.	6366225.	1638.531	1624.151	99064696.	-137201232.	6366225.	1638.531
AV	-189893.	8557.	2.202	2.183	133151.	-184410.	8557.	2.202
MONTHLY SUMMARY (JUN)								
MN	-189893.	1600.	0.000	2.183	116214.	-184410.	1600.	0.000
MX	-189893.	25643.	12.898	2.183	143439.	-184410.	25643.	12.898
SM	-136722672.	1798612.	3279.619	1571.759	94289688.	-132775384.	1798612.	3279.619
AV	-189893.	2498.	4.555	2.183	130958.	-184410.	2498.	4.555
MONTHLY SUMMARY (JUL)								
MN	-189893.	1600.	0.000	2.183	117810.	-184410.	1600.	0.000
MX	-189893.	10082.	12.976	2.183	146975.	-184410.	10082.	12.976
SM	-141280096.	1239239.	4064.665	1624.151	98738416.	-137201232.	1239239.	4064.665
AV	-189893.	1666.	5.463	2.183	132713.	-184410.	1666.	5.463

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	AC-25	AC-22	AC-22	AC-22	AC-22	AC-22	AC-23	AC-23
	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW
	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)
MONTHLY SUMMARY (AUG)								
MN	-189893.	1600.	0.000	2.183	117921.	-184410.	1600.	0.000
MX	-189893.	34014.	13.116	2.183	144375.	-184410.	34014.	13.116
SM	-141280096.	1663531.	3909.750	1624.151	98903264.	-137201232.	1663531.	3909.750
AV	-189893.	2236.	5.255	2.183	132935.	-184410.	2236.	5.255
MONTHLY SUMMARY (SEP)								
MN	-189893.	1600.	0.000	2.183	119396.	-184410.	1600.	0.000
MX	-189893.	39483.	12.059	2.183	146450.	-184410.	39483.	12.059
SM	-136722672.	3079856.	2545.617	1571.759	95014048.	-132775384.	3079856.	2545.617
AV	-189893.	4278.	3.536	2.183	131964.	-184410.	4278.	3.536
MONTHLY SUMMARY (OCT)								
MN	-189893.	1600.	0.000	2.183	119008.	-184410.	1600.	0.000
MX	-189893.	65385.	7.770	2.183	151507.	-184410.	65385.	7.770
SM	-141280096.	7463823.	1040.289	1624.151	100932704.	-137201232.	7463823.	1040.289
AV	-189893.	10032.	1.398	2.183	135662.	-184410.	10032.	1.398
MONTHLY SUMMARY (NOV)								
MN	-189893.	1600.	0.000	2.183	130244.	-184410.	1600.	0.000
MX	-189893.	77948.	5.613	2.183	160426.	-184410.	77948.	5.613
SM	-136722672.	11724183.	92.759	1571.759	103564560.	-132775384.	11724183.	92.759
AV	-189893.	16284.	0.129	2.183	143840.	-184410.	16284.	0.129
MONTHLY SUMMARY (DEC)								
MN	-189893.	1600.	0.000	2.183	134170.	-184410.	1600.	0.000
MX	-189893.	105746.	0.009	2.183	164197.	-184410.	105746.	0.009
SM	-141280096.	25558894.	0.009	1624.151	111235544.	-137201232.	25558894.	0.009
AV	-189893.	34353.	0.000	2.183	149510.	-184410.	34353.	0.000
YEARLY SUMMARY								
MN	-189893.	1600.	0.000	2.183	115445.	-184410.	1600.	0.000
MX	-189893.	131275.	13.116	2.183	171210.	-184410.	131275.	13.116
SM	-1663459328.	136374592.	16634.705	19123.070	1223902464.	-1615433984.	136374592.	16634.705
AV	-189893.	15568.	1.899	2.183	139715.	-184410.	15568.	1.899

MMDDHH	AC-23	AC-23	AC-23	AC-24	AC-24	AC-24	AC-24	AC-24
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)								
MN	2.183	132851.	-184410.	1600.	0.000	2.266	137600.	-191388.
MX	2.183	171210.	-184410.	147760.	0.010	2.266	177330.	-191388.
SM	1624.151	113464168.	-137201232.	39855864.	0.033	1685.606	117518448.	-142392496.
AV	2.183	152506.	-184410.	53570.	0.000	2.266	157955.	-191388.
MONTHLY SUMMARY (FEB)								
MN	2.183	131542.	-184410.	1600.	0.000	2.266	136245.	-191388.
MX	2.183	171210.	-184410.	146894.	0.018	2.266	177330.	-191388.
SM	1466.975	100705472.	-123923688.	32611816.	0.022	1522.483	104297992.	-128612568.
AV	2.183	149859.	-184410.	48529.	0.000	2.266	155205.	-191388.
MONTHLY SUMMARY (MAR)								
MN	2.183	122896.	-184410.	1600.	0.000	2.266	127048.	-191388.
MX	2.183	158883.	-184410.	107953.	0.043	2.266	164563.	-191388.
SM	1624.151	107382200.	-137201232.	19083850.	0.058	1685.606	111184960.	-142392496.
AV	2.183	144331.	-184410.	25650.	0.000	2.266	149442.	-191388.
MONTHLY SUMMARY (APR)								
MN	2.183	124524.	-184410.	1600.	0.000	2.266	128621.	-191388.
MX	2.183	154428.	-184410.	91622.	2.966	2.266	159948.	-191388.
SM	1571.759	100607640.	-132775384.	7497765.	31.825	1631.232	104004736.	-137799184.
AV	2.183	139733.	-184410.	10414.	0.044	2.266	144451.	-191388.
MONTHLY SUMMARY (MAY)								
MN	2.183	115445.	-184410.	1600.	0.000	2.266	119572.	-191388.
MX	2.183	149344.	-184410.	81267.	9.121	2.266	154682.	-191388.
SM	1624.151	99064696.	-137201232.	7579124.	1550.818	1685.606	102658296.	-142392496.
AV	2.183	133151.	-184410.	10187.	2.084	2.266	137982.	-191388.
MONTHLY SUMMARY (JUN)								
MN	2.183	116214.	-184410.	1600.	0.000	2.266	120382.	-191388.
MX	2.183	143439.	-184410.	30316.	13.316	2.266	148833.	-191388.
SM	1571.759	94289688.	-132775384.	2012069.	3291.246	1631.232	97710768.	-137799184.
AV	2.183	130958.	-184410.	2795.	4.571	2.266	135709.	-191388.
MONTHLY SUMMARY (JUL)								
MN	2.183	117810.	-184410.	1600.	0.000	2.266	122022.	-191388.
MX	2.183	146975.	-184410.	12644.	13.434	2.266	152032.	-191388.
SM	1624.151	98738416.	-137201232.	1271481.	4139.688	1685.606	102281184.	-142392496.
AV	2.183	132713.	-184410.	1709.	5.564	2.266	137475.	-191388.

	AC-23	AC-23	AC-23	AC-24	AC-24	AC-24	AC-24	AC-24
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	2.183	117921.	-184410.	1600.	0.000	2.266	122054.	-191388.
MX	2.183	144375.	-184410.	37996.	13.564	2.266	149529.	-191388.
SM	1624.151	98903264.	-137201232.	1807435.	3968.066	1685.606	102474152.	-142392496.
AV	2.183	132935.	-184410.	2429.	5.333	2.266	137734.	-191388.
MONTHLY SUMMARY (SEP)								
MN	2.183	119396.	-184410.	1600.	0.000	2.266	123659.	-191388.
MX	2.183	146450.	-184410.	45729.	12.461	2.266	151745.	-191388.
SM	1571.759	95014048.	-132775384.	3542826.	2551.991	1631.232	98427416.	-137799184.
AV	2.183	131964.	-184410.	4921.	3.544	2.266	136705.	-191388.
MONTHLY SUMMARY (OCT)								
MN	2.183	119008.	-184410.	1600.	0.000	2.266	123263.	-191388.
MX	2.183	151507.	-184410.	73254.	7.826	2.266	156923.	-191388.
SM	1624.151	100932704.	-137201232.	8989893.	970.858	1685.606	104544752.	-142392496.
AV	2.183	135662.	-184410.	12083.	1.305	2.266	140517.	-191388.
MONTHLY SUMMARY (NOV)								
MN	2.183	130244.	-184410.	1600.	0.000	2.266	134365.	-191388.
MX	2.183	160426.	-184410.	87004.	5.385	2.266	165337.	-191388.
SM	1571.759	103564560.	-132775384.	15740937.	71.801	1631.232	107235752.	-137799184.
AV	2.183	143840.	-184410.	21862.	0.100	2.266	148939.	-191388.
MONTHLY SUMMARY (DEC)								
MN	2.183	134170.	-184410.	1600.	0.000	2.266	138182.	-191388.
MX	2.183	164197.	-184410.	119039.	0.013	2.266	170066.	-191388.
SM	1624.151	111235544.	-137201232.	32740390.	0.027	1685.606	115192112.	-142392496.
AV	2.183	149510.	-184410.	44006.	0.000	2.266	154828.	-191388.
YEARLY SUMMARY								
MN	2.183	115445.	-184410.	1600.	0.000	2.266	119572.	-191388.
MX	2.183	171210.	-184410.	147760.	13.564	2.266	177330.	-191388.
SM	19123.070	1223902464.	-1615433984.	172733440.	16576.434	19846.650	1267530624.	-1676556672.
AV	2.183	139715.	-184410.	19718.	1.892	2.266	144695.	-191388.

MMDDHH	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)					
MN	11347.	0.000	4.496	268727.	-379785.
MX	368360.	0.000	4.496	346317.	-379785.
SM	142900192.	0.000	3344.874	229502976.	-282560192.
AV	192070.	0.000	4.496	308472.	-379785.
MONTHLY SUMMARY (FEB)					
MN	1600.	0.000	4.496	264763.	-379785.
MX	440950.	0.000	4.496	346317.	-379785.
SM	121165072.	0.000	3021.177	203613888.	-255215648.
AV	180305.	0.000	4.496	302997.	-379785.
MONTHLY SUMMARY (MAR)					
MN	1600.	0.000	4.496	248118.	-379785.
MX	330079.	0.032	4.496	321384.	-379785.
SM	86709904.	0.064	3344.874	216999008.	-282560192.
AV	116546.	0.000	4.496	291665.	-379785.
MONTHLY SUMMARY (APR)					
MN	1600.	0.000	4.496	247629.	-379785.
MX	254967.	0.058	4.496	312371.	-379785.
SM	38655840.	0.074	3236.975	201730384.	-273445344.
AV	53689.	0.000	4.496	280181.	-379785.
MONTHLY SUMMARY (MAY)					
MN	1600.	0.000	4.496	233518.	-379785.
MX	224805.	15.479	4.496	302088.	-379785.
SM	27181096.	1778.686	3344.874	201088752.	-282560192.
AV	36534.	2.391	4.496	270281.	-379785.
MONTHLY SUMMARY (JUN)					
MN	1600.	0.000	4.496	232335.	-379785.
MX	89968.	25.744	4.496	292105.	-379785.
SM	5871209.	5087.411	3236.975	192372912.	-273445344.
AV	8154.	7.066	4.496	267185.	-379785.
MONTHLY SUMMARY (JUL)					
MN	1600.	0.000	4.496	237099.	-379785.
MX	45651.	26.166	4.496	297519.	-379785.
SM	2007224.	6965.901	3344.874	201776560.	-282560192.
AV	2698.	9.363	4.496	271205.	-379785.

	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (AUG)					
MN	1600.	0.000	4.496	238089.	-379785.
MX	101142.	26.668	4.496	294348.	-379785.
SM	4184445.	6236.478	3344.874	202349296.	-282560192.
AV	5624.	8.382	4.496	271975.	-379785.
MONTHLY SUMMARY (SEP)					
MN	1600.	0.000	4.496	242425.	-379785.
MX	124586.	22.272	4.496	298983.	-379785.
SM	11754011.	3509.481	3236.975	193203328.	-273445344.
AV	16325.	4.874	4.496	268338.	-379785.
MONTHLY SUMMARY (OCT)					
MN	1600.	0.000	4.496	240726.	-379785.
MX	209464.	11.796	4.496	306464.	-379785.
SM	35717080.	740.588	3344.874	204173344.	-282560192.
AV	48007.	0.995	4.496	274427.	-379785.
MONTHLY SUMMARY (NOV)					
MN	1600.	0.000	4.496	260846.	-379785.
MX	253478.	0.064	4.496	312371.	-379785.
SM	72342896.	0.140	3236.975	208748816.	-273445344.
AV	100476.	0.000	4.496	289929.	-379785.
MONTHLY SUMMARY (DEC)					
MN	1600.	0.000	4.496	264763.	-379785.
MX	338044.	0.000	4.496	332132.	-379785.
SM	127090280.	0.000	3344.874	224847104.	-282560192.
AV	170820.	0.000	4.496	302214.	-379785.
YEARLY SUMMARY					
MN	1600.	0.000	4.496	232335.	-379785.
MX	440950.	26.668	4.496	346317.	-379785.
SM	675579264.	24318.822	39383.195	2480406272.	-3326918656.
AV	77121.	2.776	4.496	283151.	-379785.

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DOB-2.1D 1/19/1996  
BUILDING 2790 - EXISTING

10:13:49 SDL RUN 1

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MMDDHH	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC-1_2	AC-1_2	AC-1_2
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	1600.	0.000	6.171	419198.	-675339.	1600.	0.000	6.590
MX	648866.	0.000	6.171	540233.	-675339.	528636.	0.035	6.590
SM	249252064.	0.000	4591.521	358010464.	-502452000.	196586880.	0.035	4903.183
AV	335016.	0.000	6.171	481197.	-675339.	264230.	0.000	6.590
MONTHLY SUMMARY (FEB)								
MN	1600.	0.000	6.171	413015.	-675339.	1600.	0.000	6.590
MX	692260.	0.000	6.171	540233.	-675339.	541186.	0.007	6.590
SM	205744432.	0.000	4147.180	317625088.	-453827616.	161229120.	0.007	4428.682
AV	306167.	0.000	6.171	472656.	-675339.	239924.	0.000	6.590
MONTHLY SUMMARY (MAR)								
MN	1600.	0.000	6.171	387049.	-675339.	1600.	0.000	6.590
MX	510673.	0.031	6.171	501340.	-675339.	412173.	0.071	6.590
SM	151022320.	0.031	4591.521	338473024.	-502452000.	112568472.	0.099	4903.183
AV	202987.	0.000	6.171	454937.	-675339.	151302.	0.000	6.590
MONTHLY SUMMARY (APR)								
MN	1600.	0.000	6.171	390512.	-675339.	1600.	0.000	6.590
MX	430793.	0.044	6.171	487280.	-675339.	346355.	0.054	6.590
SM	75598888.	0.066	4443.408	314401632.	-486243872.	49898580.	0.129	4745.016
AV	104998.	0.000	6.171	436669.	-675339.	69304.	0.000	6.590
MONTHLY SUMMARY (MAY)								
MN	1600.	0.000	6.171	364274.	-675339.	1600.	0.000	6.590
MX	388901.	25.334	6.171	471238.	-675339.	310309.	23.128	6.590
SM	54239380.	2790.134	4591.521	313224512.	-502452000.	35850540.	2802.956	4903.183
AV	72902.	3.750	6.171	421001.	-675339.	48186.	3.767	6.590
MONTHLY SUMMARY (JUN)								
MN	1600.	0.000	6.171	364471.	-675339.	1600.	0.000	6.590
MX	176937.	42.155	6.171	458672.	-675339.	124121.	37.126	6.590
SM	13192744.	8339.002	4443.408	301833120.	-486243872.	7035835.	7781.230	4745.016
AV	18323.	11.582	6.171	419213.	-675339.	9772.	10.807	6.590
MONTHLY SUMMARY (JUL)								
MN	1600.	0.000	6.171	369860.	-675339.	1600.	0.000	6.590
MX	115433.	41.063	6.171	473976.	-675339.	63139.	37.778	6.590
SM	4399660.	11424.815	4591.521	319352064.	-502452000.	2106453.	10441.887	4903.183
AV	5914.	15.356	6.171	429237.	-675339.	2831.	14.035	6.590



	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC-1_2	AC-1_2	AC-1_2
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (AUG)								
MN	1600.	0.000	6.171	376938.	-675339.	1600.	0.000	6.590
MX	189918.	42.120	6.171	465903.	-675339.	137603.	37.825	6.590
SM	9235072.	10371.334	4591.521	318897536.	-502452000.	5050053.	9496.333	4903.183
AV	12413.	13.940	6.171	428626.	-675339.	6788.	12.764	6.590
MONTHLY SUMMARY (SEP)								
MN	1600.	0.000	6.171	383810.	-675339.	1600.	0.000	6.590
MX	244235.	37.934	6.171	472375.	-675339.	184909.	33.372	6.590
SM	24945502.	5786.736	4443.408	303090272.	-486243872.	15603298.	5460.445	4745.016
AV	34647.	8.037	6.171	420959.	-675339.	21671.	7.584	6.590
MONTHLY SUMMARY (OCT)								
MN	1600.	0.000	6.171	375518.	-675339.	1600.	0.000	6.590
MX	355694.	20.797	6.171	478065.	-675339.	272436.	17.388	6.590
SM	69667448.	1329.456	4591.521	317781632.	-502452000.	45837980.	1191.267	4903.183
AV	93639.	1.787	6.171	427126.	-675339.	61610.	1.601	6.590
MONTHLY SUMMARY (NOV)								
MN	1600.	0.000	6.171	406903.	-675339.	1600.	0.000	6.590
MX	413632.	0.814	6.171	487280.	-675339.	330143.	0.000	6.590
SM	129756264.	1.383	4443.408	325309504.	-486243872.	97064648.	0.000	4745.016
AV	180217.	0.002	6.171	451819.	-675339.	134812.	0.000	6.590
MONTHLY SUMMARY (DEC)								
MN	1600.	0.000	6.171	413015.	-675339.	1600.	0.000	6.590
MX	563064.	0.056	6.171	518105.	-675339.	446285.	0.000	6.590
SM	219610832.	0.056	4591.521	350708416.	-502452000.	173056256.	0.000	4903.183
AV	295176.	0.000	6.171	471382.	-675339.	232603.	0.000	6.590
YEARLY SUMMARY								
MN	1600.	0.000	6.171	364274.	-675339.	1600.	0.000	6.590
MX	692260.	42.155	6.171	540233.	-675339.	541186.	37.825	6.590
SM	1206664704.	40043.012	54061.461	3878706944.	-5915967488.	901888128.	37174.387	57731.027
AV	137747.	4.571	6.171	442775.	-675339.	102955.	4.244	6.590

MMDDHH	AC-1_2	AC-1_2	AC_EXP	AC_EXP	AC_EXP	AC_EXP	AC_EXP
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (JAN)							
MN	390358.	-556719.	82416.	0.000	6.171	365443.	-521332.
MX	503066.	-556719.	541912.	0.000	6.171	470959.	-521332.
SM	333380096.	-414198944.	234761600.	0.000	4591.521	312102272.	-387871104.
AV	448092.	-556719.	315540.	0.000	6.171	419492.	-521332.
MONTHLY SUMMARY (FEB)							
MN	384600.	-556719.	17320.	0.000	6.171	360053.	-521332.
MX	503066.	-556719.	638951.	0.000	6.171	470959.	-521332.
SM	295774208.	-374115200.	201392064.	0.000	4147.180	276895552.	-350335200.
AV	440140.	-556719.	299691.	0.000	6.171	412047.	-521332.
MONTHLY SUMMARY (MAR)							
MN	360421.	-556719.	1600.	0.000	6.171	337417.	-521332.
MX	466849.	-556719.	499925.	0.065	6.171	437052.	-521332.
SM	315221152.	-414198944.	158439792.	0.102	4591.521	295090848.	-387871104.
AV	423684.	-556719.	212957.	0.000	6.171	396627.	-521332.
MONTHLY SUMMARY (APR)							
MN	360541.	-556719.	1600.	0.000	6.171	329490.	-521332.
MX	453756.	-556719.	387902.	0.064	6.171	424795.	-521332.
SM	293141376.	-400837696.	83833512.	0.086	4443.408	273886688.	-375359136.
AV	407141.	-556719.	116435.	0.000	6.171	380398.	-521332.
MONTHLY SUMMARY (MAY)							
MN	339213.	-556719.	1600.	0.000	6.171	317563.	-521332.
MX	438818.	-556719.	338529.	15.362	6.171	410811.	-521332.
SM	291744480.	-414198944.	56613372.	1234.007	4591.521	273814624.	-387871104.
AV	392130.	-556719.	76093.	1.659	6.171	368030.	-521332.
MONTHLY SUMMARY (JUN)							
MN	337585.	-556719.	1600.	0.000	6.171	315953.	-521332.
MX	423616.	-556719.	150216.	31.371	6.171	402325.	-521332.
SM	278103904.	-400837696.	13446205.	5029.984	4443.408	262678560.	-375359136.
AV	386255.	-556719.	18675.	6.986	6.171	364831.	-521332.
MONTHLY SUMMARY (JUL)							
MN	344415.	-556719.	1600.	0.000	6.171	322433.	-521332.
MX	429870.	-556719.	89820.	32.806	6.171	408681.	-521332.
SM	291083616.	-414198944.	4053830.	7323.528	4591.521	276209920.	-387871104.
AV	391241.	-556719.	5449.	9.843	6.171	371250.	-521332.

EMTECH ENGINEERING  
READING, PA 19603  
SH-2 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 1/19/1996  
BUILDING 2790 - EXISTING

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	AC-1_2	AC-1_2	AC_EXP	AC_EXP	AC_EXP	AC_EXP	AC_EXP
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (AUG)							
MN	345345.	-556719.	1600.	0.000	6.171	322804.	-521332.
MX	427626.	-556719.	154141.	32.522	6.171	403790.	-521332.
SM	292054944.	-414198944.	8585297.	6426.534	4591.521	276746816.	-387871104.
AV	392547.	-556719.	11539.	8.638	6.171	371972.	-521332.
MONTHLY SUMMARY (SEP)							
MN	350860.	-556719.	1600.	0.000	6.171	329490.	-521332.
MX	432876.	-556719.	198051.	24.717	6.171	408907.	-521332.
SM	279856864.	-400837696.	23930834.	3247.383	4443.408	263516688.	-375359136.
AV	388690.	-556719.	33237.	4.510	6.171	365995.	-521332.
MONTHLY SUMMARY (OCT)							
MN	349683.	-556719.	1600.	0.000	6.171	327365.	-521332.
MX	445175.	-556719.	318258.	10.836	6.171	416762.	-521332.
SM	296446560.	-414198944.	71176168.	414.984	4591.521	277493664.	-387871104.
AV	398450.	-556719.	95667.	0.558	6.171	372975.	-521332.
MONTHLY SUMMARY (NOV)							
MN	378909.	-556719.	1600.	0.000	6.171	354726.	-521332.
MX	453756.	-556719.	370123.	0.000	6.171	424795.	-521332.
SM	303364032.	-400837696.	129093024.	0.000	4443.408	283361952.	-375359136.
AV	421339.	-556719.	179296.	0.000	6.171	393558.	-521332.
MONTHLY SUMMARY (DEC)							
MN	384600.	-556719.	52245.	0.000	6.171	360053.	-521332.
MX	482461.	-556719.	506512.	0.000	6.171	451668.	-521332.
SM	326622848.	-414198944.	210555344.	0.000	4591.521	305761312.	-387871104.
AV	439009.	-556719.	283005.	0.000	6.171	410970.	-521332.
YEARLY SUMMARY							
MN	337585.	-556719.	1600.	0.000	6.171	315953.	-521332.
MX	503066.	-556719.	638951.	32.806	6.171	470959.	-521332.
SM	3596794368.	-4876858880.	1195881088.	23676.609	54061.461	3377559040.	-4566869504.
AV	410593.	-556719.	136516.	2.703	6.171	385566.	-521332.

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BUILDING 2790 - EXISTING  
WEATHER FILE- BALTIMORE, MD

[illegible]

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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BUILDING 2790 - EXISTING  
WEATHER FILE- BALTIMORE, MD

S I T E E N E R G Y													* SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
MONTH	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELRC INPUT COOLING	FUEL INPUT HEATING	ELRC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	0.0	0.0	374.4 109.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	1086.4	1460.8	2210.6
FEB	0.0	0.0	333.7 97.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	906.8	1240.5	1908.8
MAR	0.0	0.0	383.6 112.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	628.4	1012.0	1780.3
APR	0.0	0.0	371.7 108.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	293.1	664.9	1409.5
MAY	0.0	0.0	438.7 128.5E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	226.1	664.8	1543.4
JUN	0.0	0.0	548.8 160.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	54.2	602.9	1702.1
JUL	0.0	0.0	599.5 175.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	22.5	621.9	1822.6
AUG	0.0	0.0	601.2 176.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	40.5	641.7	1845.8
SEP	0.0	0.0	491.5 144.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	101.3	592.9	1577.4
OCT	0.0	0.0	405.7 118.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	283.7	689.3	1501.9
NOV	0.0	0.0	354.0 103.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	527.0	881.0	1590.2
DEC	0.0	0.0	374.4 109.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	943.2	1317.6	2067.4
	0.0	0.0	5277.0 1545.5E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	5113.3	10390.3	20960.1

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

MO	UTILITY-	ELECTRICITY	FUEL-OIL	NATURAL-GAS
	TOTAL (MBTU)	374.351	0.000	1086.428
JAN	PEAK (KBTU)	878.266	0.000	3146.579
	DY/HR	6/ 9	31/24	31/ 7
	TOTAL (MBTU)	333.658	0.000	906.847
FEB	PEAK (KBTU)	878.291	0.000	3376.558
	DY/HR	26/ 9	28/24	12/ 6
	TOTAL (MBTU)	383.584	0.000	628.385
MAR	PEAK (KBTU)	878.327	0.000	2490.928
	DY/HR	28/ 9	31/24	5/ 8
	TOTAL (MBTU)	371.733	0.000	293.139
APR	PEAK (KBTU)	977.351	0.000	2059.329
	DY/HR	19/19	30/ 1	9/ 7
	TOTAL (MBTU)	438.671	0.000	226.091
MAY	PEAK (KBTU)	1392.848	0.000	1839.409
	DY/HR	21/17	31/ 1	10/ 7
	TOTAL (MBTU)	548.772	0.000	54.156
JUN	PEAK (KBTU)	1689.427	0.000	748.828
	DY/HR	28/17	30/ 1	22/ 7
	TOTAL (MBTU)	599.452	0.000	22.492
JUL	PEAK (KBTU)	1701.746	0.000	394.710
	DY/HR	25/17	31/ 1	21/ 5
	TOTAL (MBTU)	601.158	0.000	40.508
AUG	PEAK (KBTU)	1710.840	0.000	852.452
	DY/HR	18/17	31/ 1	22/ 4
	TOTAL (MBTU)	491.546	0.000	101.331
SEP	PEAK (KBTU)	1610.253	0.000	1073.218
	DY/HR	1/17	30/ 1	30/ 7
	TOTAL (MBTU)	405.663	0.000	283.668
OCT	PEAK (KBTU)	1292.527	0.000	1610.285
	DY/HR	13/17	31/24	5/ 7
	TOTAL (MBTU)	354.028	0.000	527.012
NOV	PEAK (KBTU)	1033.762	0.000	1965.501
	DY/HR	2/19	30/24	25/ 7
	TOTAL (MBTU)	374.352	0.000	943.243
DEC	PEAK (KBTU)	878.347	0.000	2695.021
	DY/HR	15/ 9	31/24	21/ 5
	ONE YEAR	5276.969	0.000	5113.301
	USE/PEAK	1710.840	0.000	3376.558

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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BUILDING 2790 - EXISTING  
WEATHER FILE- BALTIMORE, MD

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	5277.0	100.0
	-----	-----
LOAD SATISFIED	5277.0	100.0
TOTAL LOAD ON PLANT	5277.1	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

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BUILDING 2790 - EXISTING  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MBT

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
ELECTRICAL LOADS	5277.1	5277.0	0.000	0.000	0



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EQUIPMENT	AVG	MAX	MON		SIZE		SIZE		SIZE		SIZE		SIZE	
	OPER RATIO	LOAD (MBTU)	DAY	HR	OPER (MBTU)	OPER HRS	OPER (MBTU)	OPER HRS	OPER (MBTU)	OPER HRS	OPER (MBTU)	OPER HRS	OPER (MBTU)	OPER HRS
HW-BOILER	0.000	0.000	0	0	0	0.000	0							

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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BUILDING 2790 - EXISTING  
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EQUIPMENT TOTALS

HW-BOILER	0.1		
NOMINAL SIZE (MBTU)		0.000	
NUMBER INSTALLED		1	
FIRST COST (K\$)	0.0	0.0	
ANNUAL COST (K\$)	0.1	0.1	
CYCLICAL COST (K\$)	0.0	0.0	
-----TOTAL----- (K\$)		0.1	
-----			
EQUIPMENT TOTAL	0.1		

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	0.00	0.00	5113.29
SPACE COOL	879.69	0.00	0.00
HVAC AUX	1222.55	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	2778.51	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	396.17	0.00	0.00
	-----	-----	-----
TOTAL	5276.91	0.00	5113.29

TOTAL SITE ENERGY    10390.27 MBTU    132.5 KBTU/SQFT-YR GROSS-AREA    132.5 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY    20960.05 MBTU    267.3 KBTU/SQFT-YR GROSS-AREA    267.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.3  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE    ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND.    ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D 5/12/1996      9:17:26 SDL RUN 1  
READING, PA 19603      FT. GEORGE G. MEADE      BUILDING 2790 - NEW  
SH-1      = HOURLY-REPORT      PAGE 1- 1

MMDDHH	AC-17	AC-17	AC-17	AC-17	AC-17	AC-18	AC-18	AC-18
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	HEATING GAS BTU/HR	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(47)	----(49)	----(45)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	0.048	2.165	214161.	169898.	0.	194769.	0.000	2.106
SM	0.059	1037.179	19591772.	72034600.	-87616240.	12717925.	0.000	996.280
AV	0.000	1.394	26333.	96821.	-117764.	17094.	0.000	1.339
MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	0.011	2.165	198275.	169898.	0.	180399.	0.042	2.106
SM	0.011	935.410	14728873.	63556000.	-79019232.	9868724.	0.077	895.177
AV	0.000	1.392	21918.	94577.	-117588.	14686.	0.000	1.332
MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	0.037	2.165	167576.	156182.	0.	155187.	0.662	2.106
SM	0.044	1015.526	7083866.	66353968.	-85787072.	3979813.	2.571	983.642
AV	0.000	1.365	9521.	89185.	-115305.	5349.	0.003	1.322
MONTHLY SUMMARY (APR)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	4.318	2.165	97074.	153244.	0.	55204.	5.187	2.106
SM	96.494	974.385	2198061.	51923940.	-82311696.	1417385.	219.710	949.941
AV	0.134	1.353	3053.	86005.	-114322.	1969.	0.305	1.319
MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	9.323	2.165	82966.	148199.	0.	71744.	9.337	2.106
SM	1489.472	1030.683	2751252.	62241404.	-87067472.	1880373.	1597.585	989.961
AV	2.002	1.385	3698.	83658.	-117026.	2527.	2.147	1.331
MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	13.004	2.165	10327.	146988.	0.	1600.	12.680	2.106
SM	2898.305	974.385	1176582.	57481956.	-82311696.	1152000.	2934.999	947.835
AV	4.025	1.353	1634.	79836.	-114322.	1600.	4.076	1.316
MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	13.000	2.165	1600.	155867.	0.	1600.	12.684	2.106
SM	3348.631	1006.864	1190400.	60582000.	-85055416.	1190400.	3345.303	979.429
AV	4.501	1.353	1600.	81427.	-114322.	1600.	4.496	1.316

ENTECH ENGINEERING  
READING, PA 19603  
SH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996  
BUILDING 2790 - NEW

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	AC-17	AC-17	AC-17	AC-17	AC-17	AC-18	AC-18	AC-18
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	HEATING GAS BTU/HR	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(47)	----(49)	----(45)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	13.056	2.165	39174.	149784.	0.	17409.	12.736	2.106
SM	3404.985	1009.030	1295349.	60331660.	-85238328.	1206209.	3416.549	979.429
AV	4.577	1.356	1741.	81091.	-114568.	1621.	4.592	1.316
MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	12.425	2.165	33049.	152085.	0.	21108.	12.137	2.106
SM	2248.273	974.385	1421219.	58169480.	-82311696.	1240002.	2316.934	947.835
AV	3.123	1.353	1974.	80791.	-114322.	1722.	3.218	1.316
MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	7.860	2.165	102172.	150347.	0.	79482.	8.089	2.106
SM	977.413	1022.021	3077396.	62689952.	-86335816.	1961094.	1109.146	979.429
AV	1.314	1.374	4136.	84261.	-116043.	2636.	1.491	1.316
MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	5.709	2.165	144003.	159365.	0.	105507.	6.154	2.106
SM	99.662	976.550	4647658.	63834164.	-82494608.	2511149.	140.538	952.047
AV	0.138	1.356	6455.	88659.	-114576.	3488.	0.195	1.322
MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	0.007	2.165	169021.	162939.	0.	154674.	0.017	2.106
SM	0.010	1043.675	13939332.	70942408.	-88164976.	8143546.	0.022	992.067
AV	0.000	1.403	18736.	95353.	-118501.	10946.	0.000	1.333
YEARLY SUMMARY								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	13.056	2.165	214161.	169898.	0.	194769.	12.736	2.106
SM	14563.358	12000.091	73101760.	760141440.	-1013714240.	47268612.	15083.435	11593.074
AV	1.662	1.370	8345.	86774.	-115721.	5396.	1.722	1.323

MMDDHH	AC-18	AC-18	AC-19	AC-19	AC-19	AC-19	AC-19	AC-21
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR
	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)
MONTHLY SUMMARY (JAN)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	165524.	0.	194769.	0.000	2.106	165524.	0.	214814.
SM	69320392.	-84161280.	12717925.	0.000	996.280	69320392.	-84161280.	19190080.
AV	93173.	-113120.	17094.	0.000	1.339	93173.	-113120.	25793.
MONTHLY SUMMARY (FEB)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	165524.	0.	180399.	0.042	2.106	165524.	0.	198082.
SM	60945904.	-75620608.	9868724.	0.077	895.177	60945904.	-75620608.	14399951.
AV	90693.	-112531.	14686.	0.000	1.332	90693.	-112531.	21428.
MONTHLY SUMMARY (MAR)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	152162.	0.	155187.	0.562	2.106	152162.	0.	167124.
SM	64424920.	-83093704.	3979813.	2.571	983.542	64424920.	-83093704.	6840583.
AV	86593.	-111685.	5349.	0.003	1.322	86593.	-111685.	9194.
MONTHLY SUMMARY (APR)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	149299.	0.	55204.	5.187	2.106	149299.	0.	96883.
SM	60555992.	-80246808.	1417385.	219.710	949.941	60555992.	-80246808.	2155561.
AV	84106.	-111454.	1969.	0.305	1.319	84106.	-111454.	2394.
MONTHLY SUMMARY (MAY)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	144384.	0.	71744.	9.337	2.106	144384.	0.	53211.
SM	59786684.	-83627488.	1880373.	1597.585	989.961	59786684.	-83627488.	2717723.
AV	80358.	-112403.	2527.	2.147	1.331	80358.	-112403.	3653.
MONTHLY SUMMARY (JUN)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	143420.	0.	1600.	12.580	2.106	143420.	0.	9384.
SM	55989232.	-80068880.	1152000.	2934.999	947.835	55989232.	-80068880.	1175747.
AV	77763.	-111207.	1600.	4.076	1.316	77763.	-111207.	1533.
MONTHLY SUMMARY (JUL)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	151973.	0.	1600.	12.684	2.106	151973.	0.	1600.
SM	59010084.	-82737840.	1190400.	3345.303	979.429	59010084.	-82737840.	1190400.
AV	79315.	-111207.	1600.	4.496	1.316	79315.	-111207.	1600.

	AC-18	AC-18	AC-19	AC-19	AC-19	AC-19	AC-19	AC-21
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR
	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)
MONTHLY SUMMARY (AUG)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	146020.	0.	17409.	12.736	2.106	146020.	0.	39062.
SM	58631896.	-82737840.	1206209.	3416.549	979.429	58631896.	-82737840.	1290972.
AV	78806.	-111207.	1621.	4.592	1.316	78806.	-111207.	1735.
MONTHLY SUMMARY (SEP)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	148671.	0.	21108.	12.137	2.106	148671.	0.	30677.
SM	56652504.	-80068880.	1240002.	2316.934	947.835	56652504.	-80068880.	1377177.
AV	78684.	-111207.	1722.	3.218	1.316	78684.	-111207.	1913.
MONTHLY SUMMARY (OCT)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	146476.	0.	79482.	8.989	2.106	146476.	0.	97839.
SM	60129152.	-82737840.	1961094.	1109.146	979.429	60129152.	-82737840.	2904491.
AV	80819.	-111207.	2636.	1.491	1.316	80819.	-111207.	3904.
MONTHLY SUMMARY (NOV)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	153870.	0.	106507.	6.154	2.106	153870.	0.	141482.
SM	62408312.	-80424744.	2511149.	140.538	952.047	62408312.	-80424744.	4449142.
AV	86678.	-111701.	3488.	0.195	1.322	86678.	-111701.	6179.
MONTHLY SUMMARY (DEC)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	158744.	0.	154674.	0.317	2.106	158744.	0.	169231.
SM	67484216.	-83805424.	8143546.	0.022	992.067	67484216.	-83805424.	13507875.
AV	90705.	-112642.	10946.	0.000	1.333	90705.	-112642.	18156.
YEARLY SUMMARY								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	165524.	0.	194769.	12.736	2.106	165524.	0.	214814.
SM	735339264.	-979331392.	47268612.	15083.435	12593.074	735339264.	-979331392.	71199904.
AV	83943.	-111796.	5396.	1.722	1.323	83943.	-111796.	8128.

MMDDHH	AC-21	AC-21	AC-21	AC-21	AC-25	AC-25	AC-25	AC-25
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR
	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)
MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	0.000	2.189	171647.	0.	223474.	0.006	2.248	176019.
SM	0.000	1048.483	72776376.	-88571160.	24546172.	0.006	1081.240	74932664.
AV	0.000	1.409	97818.	-119047.	32992.	0.000	1.453	100716.
MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	0.047	2.189	171647.	0.	211554.	0.016	2.248	176019.
SM	0.075	943.416	64059280.	-79695552.	18509228.	0.016	982.332	66643768.
AV	0.000	1.404	95326.	-118595.	27543.	0.000	1.462	99172.
MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	0.033	2.189	157790.	0.	177602.	0.021	2.248	161809.
SM	0.065	1026.594	67042100.	-86722072.	9417397.	0.055	1056.513	68863080.
AV	0.000	1.380	90110.	-116562.	12658.	0.000	1.420	92558.
MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	4.517	2.189	154822.	0.	115451.	3.774	2.248	158765.
SM	104.591	985.005	62562092.	-83208816.	2985247.	55.426	1011.555	64031128.
AV	0.145	1.368	86892.	-115568.	4146.	0.077	1.405	88932.
MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	9.440	2.189	149725.	0.	89646.	9.507	2.248	153539.
SM	1505.682	1041.916	62881968.	-88016424.	3450165.	1439.866	1078.992	65070208.
AV	2.024	1.400	84519.	-118302.	4637.	1.935	1.450	87460.
MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	13.133	2.189	148526.	0.	18896.	13.457	2.248	152120.
SM	2922.726	985.005	58069912.	-83208816.	1211964.	2915.560	1011.555	59564072.
AV	4.059	1.368	80653.	-115568.	1683.	4.049	1.405	82728.
MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	13.128	2.189	157507.	0.	1600.	13.448	2.248	161349.
SM	3380.717	1017.838	61197684.	-85982440.	1190400.	3392.390	1045.274	62773840.
AV	4.544	1.368	82255.	-115568.	1600.	4.560	1.405	84373.



	AC-21	AC-21	AC-21	AC-21	AC-25	AC-25	AC-25	AC-25
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR
	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	13.193	2.189	151348.	0.	43782.	13.513	2.248	155124.
SM	3449.515	1020.027	60942488.	-86167344.	1357859.	3447.411	1047.521	62519464.
AV	4.636	1.371	81912.	-115816.	1825.	4.634	1.408	84032.
MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	12.570	2.189	153756.	0.	41648.	12.856	2.248	157258.
SM	2299.981	985.005	58750896.	-83208816.	1630083.	2238.269	1013.803	60420368.
AV	3.194	1.368	81598.	-115568.	2264.	3.109	1.408	83917.
MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	8.113	2.189	151894.	0.	116254.	7.840	2.248	155763.
SM	1019.131	1030.972	63194548.	-87091888.	3841314.	914.876	1065.505	65227744.
AV	1.370	1.386	84939.	-117059.	5163.	1.230	1.432	87672.
MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	5.870	2.189	161070.	0.	156767.	5.416	2.248	164338.
SM	103.752	987.194	64502420.	-83393728.	6575068.	80.506	1020.547	66550396.
AV	0.144	1.371	89587.	-115825.	9132.	0.112	1.417	92431.
MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	0.005	2.189	164616.	0.	180326.	0.000	2.248	168809.
SM	0.005	1052.861	71522744.	-88940976.	18210452.	0.000	1085.736	73651280.
AV	0.000	1.415	96133.	-119544.	24476.	0.000	1.459	98994.
YEARLY SUMMARY								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	13.193	2.189	171647.	0.	223474.	13.513	2.248	176019.
SM	14756.239	12124.316	767502528.	-1024208128.	92925344.	14484.380	12500.572	790248000.
AV	1.688	1.384	87614.	-116919.	10608.	1.653	1.427	90211.

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MMDDHH	AC-25	AC-22	AC-22	AC-22	AC-22	AC-22	AC-23	AC-23
	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW
	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)
MONTHLY SUMMARY (JAN)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	209380.	0.027	2.183	171210.	0.	209380.	0.027
SM	-91338336.	17537012.	0.027	1043.474	72442536.	-88148048.	17537012.	0.027
AV	-122767.	23571.	0.000	1.403	97369.	-118479.	23571.	0.000
MONTHLY SUMMARY (FEB)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	193857.	0.022	2.183	171210.	0.	193857.	0.022
SM	-82983072.	13181638.	0.084	936.507	63609660.	-79111960.	13181638.	0.084
AV	-123487.	19616.	0.000	1.394	94657.	-117726.	19616.	0.000
MONTHLY SUMMARY (MAR)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	164164.	0.015	2.183	157398.	0.	164164.	0.015
SM	-89249528.	6073640.	0.039	1023.827	56887660.	-86488360.	6073640.	0.039
AV	-119959.	8163.	0.000	1.376	89903.	-116248.	8163.	0.000
MONTHLY SUMMARY (APR)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	88372.	4.758	2.183	154428.	0.	88372.	4.758
SM	-85451672.	1864440.	132.389	982.350	62437760.	-82984568.	1864440.	132.389
AV	-118683.	2589.	0.184	1.364	85719.	-115256.	2589.	0.184
MONTHLY SUMMARY (MAY)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	79325.	9.516	2.183	149344.	0.	79325.	9.516
SM	-91148456.	2469452.	1539.583	1036.925	62572768.	-87594824.	2469452.	1539.583
AV	-122511.	3319.	2.069	1.394	84103.	-117735.	3319.	2.069
MONTHLY SUMMARY (JUN)								
- MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	8169.	13.102	2.183	148172.	0.	8169.	13.102
SM	-85451672.	1169669.	2948.349	982.350	57917340.	-82984568.	1169669.	2948.349
AV	-118683.	1625.	4.095	1.364	80441.	-115256.	1625.	4.095
MONTHLY SUMMARY (JUL)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	1600.	13.101	2.183	157042.	0.	1600.	13.101
SM	-88300064.	1190400.	3385.485	1015.095	61044936.	-85750720.	1190400.	3385.485
AV	-119683.	1600.	4.550	1.364	82350.	-115256.	1600.	4.550

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	AC-25	AC-22	AC-22	AC-22	AC-22	AC-22	AC-23	AC-23
	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW
	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)
MONTHLY SUMMARY (AUG)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	36743.	13.161	2.183	150965.	0.	36743.	13.161
SM	-88489952.	1266595.	3455.384	1017.278	60787696.	-85935128.	1266595.	3455.384
AV	-118938.	1702.	4.644	1.367	81704.	-115504.	1702.	4.644
MONTHLY SUMMARY (SEP)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	29756.	12.540	2.183	153427.	0.	29756.	12.540
SM	-85641560.	1359830.	2298.935	982.350	58609012.	-82984568.	1359830.	2298.935
AV	-118947.	1889.	3.193	1.364	81401.	-115256.	1889.	3.193
MONTHLY SUMMARY (OCT)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	95265.	8.060	2.183	151507.	0.	95265.	8.060
SM	-90009096.	2679423.	1033.059	1023.827	62752536.	-86488360.	2679423.	1033.059
AV	-120980.	3601.	1.389	1.376	84345.	-116248.	3601.	1.389
MONTHLY SUMMARY (NOV)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	133762.	5.835	2.183	160792.	0.	133762.	5.835
SM	-86211240.	3858681.	107.679	984.533	64355528.	-83168976.	3858681.	107.679
AV	-119738.	5359.	0.150	1.367	89383.	-115512.	5359.	0.150
MONTHLY SUMMARY (DEC)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	165363.	0.027	2.183	164197.	0.	165363.	0.027
SM	-91718120.	12110439.	0.032	1045.657	71032216.	-88332464.	12110439.	0.032
AV	-123277.	16277.	0.000	1.405	95473.	-118726.	16277.	0.000
YEARLY SUMMARY								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	209380.	13.161	2.183	171210.	0.	209380.	13.161
SM	-1055992832.	64761216.	14901.045	12074.173	764449600.	-1019972544.	64761216.	14901.045
AV	-120547.	7393.	1.701	1.378	87266.	-116435.	7393.	1.701

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MMDDHH	AC-23	AC-23	AC-23	AC-24	AC-24	AC-24	AC-24	AC-24
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (JAN)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	171210.	0.	225000.	0.014	2.266	177330.	0.
SM	1043.474	72442536.	-88148048.	24048806.	0.025	1089.754	75490960.	-92057504.
AV	1.403	97369.	-118479.	32324.	0.000	1.465	101466.	-123733.
MONTHLY SUMMARY (FEB)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	171210.	0.	211167.	0.037	2.266	177330.	0.
SM	936.507	63609660.	-79111960.	18066856.	0.103	985.536	66825552.	-83253672.
AV	1.394	94657.	-117726.	26885.	0.000	1.467	99443.	-123889.
MONTHLY SUMMARY (MAR)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	157388.	0.	177040.	0.021	2.266	163014.	0.
SM	1023.827	66887660.	-86488360.	9175492.	0.021	1064.832	69379456.	-89952240.
AV	1.376	89903.	-116248.	12333.	0.000	1.431	93252.	-120904.
MONTHLY SUMMARY (APR)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	154428.	0.	115317.	3.965	2.266	159948.	0.
SM	982.350	62437760.	-82984568.	2922345.	60.561	1019.520	64514848.	-86124488.
AV	1.364	86719.	-115256.	4059.	0.084	1.416	89604.	-119617.
MONTHLY SUMMARY (MAY)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	149344.	0.	89800.	9.618	2.266	154682.	0.
SM	1036.925	62572768.	-87594824.	3315951.	1454.105	1082.957	65260496.	-91483344.
AV	1.394	84103.	-117735.	4457.	1.954	1.456	87716.	-122961.
MONTHLY SUMMARY (JUN)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	148172.	0.	18643.	13.555	2.266	153279.	0.
SM	982.350	57917340.	-82984568.	1210548.	2937.009	1019.520	60004680.	-86124488.
AV	1.364	80441.	-115256.	1681.	4.079	1.416	83340.	-119617.
MONTHLY SUMMARY (JUL)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	157042.	0.	1600.	13.544	2.266	162588.	0.
SM	1015.095	61044936.	-85750720.	1190400.	3421.640	1053.504	63232528.	-88995304.
AV	1.364	82050.	-115256.	1600.	4.599	1.416	84990.	-119617.

	AC-23	AC-23	AC-23	AC-24	AC-24	AC-24	AC-24	AC-24
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	150965.	0.	43652.	13.618	2.266	156303.	0.
SM	1017.278	60787696.	-85935128.	1355687.	3488.185	1055.770	62973796.	-89186688.
AV	1.367	81704.	-115504.	1822.	4.688	1.419	84642.	-119875.
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	153427.	0.	38990.	12.974	2.266	158532.	0.
SM	982.350	58609012.	-82984568.	1546757.	2286.524	1019.520	60707816.	-86124488.
AV	1.364	81401.	-115256.	2148.	3.176	1.416	84316.	-119617.
MONTHLY SUMMARY (OCT)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	151507.	0.	112012.	8.088	2.266	156923.	0.
SM	1023.827	62752536.	-86488360.	3619568.	953.120	1071.629	65564224.	-90526408.
AV	1.375	84345.	-116248.	4865.	1.281	1.440	88124.	-121675.
MONTHLY SUMMARY (NOV)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	160792.	0.	157251.	5.572	2.266	165694.	0.
SM	984.533	64355528.	-83168976.	6260087.	85.273	1028.583	67052440.	-86890040.
AV	1.367	89383.	-115512.	8695.	0.113	1.429	93128.	-120681.
MONTHLY SUMMARY (DEC)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	164197.	0.	180416.	0.017	2.266	170066.	0.
SM	1045.657	71032216.	-88332464.	17764408.	0.017	1094.285	74201704.	-92440288.
AV	1.405	95473.	-118726.	23877.	0.000	1.471	99733.	-124248.
YEARLY SUMMARY								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	171210.	0.	225000.	13.618	2.266	177330.	0.
SM	12074.173	764449600.	-1019972544.	90476904.	14686.584	12585.410	795208448.	-1063158912.
AV	1.378	87266.	-116435.	10328.	1.677	1.437	90777.	-121365.

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MMDDHH	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
----	(45)	(47)	(49)	(70)	(78)
MONTHLY SUMMARY (JAN)					
MN	1600.	0.000	0.000	0.	-379785.
MX	510228.	0.000	4.496	346317.	0.
SM	104640936.	0.000	2198.446	150072640.	-185714960.
AV	140646.	0.000	2.955	201711.	-249617.
MONTHLY SUMMARY (FEB)					
MN	1600.	0.000	0.000	0.	-379785.
MX	511097.	0.000	4.496	346317.	0.
SM	87014192.	0.000	2014.118	134754608.	-170143776.
AV	129485.	0.000	2.997	200528.	-253190.
MONTHLY SUMMARY (MAR)					
MN	1600.	0.000	0.000	0.	-379785.
MX	456563.	0.037	4.496	319870.	0.
SM	58908284.	0.067	2135.505	136893488.	-180397984.
AV	79178.	0.000	2.870	183997.	-242470.
MONTHLY SUMMARY (APR)					
MN	1600.	0.000	0.000	0.	-379785.
MX	366213.	0.044	4.496	312371.	0.
SM	22665174.	0.084	2023.110	124554704.	-170903344.
AV	31479.	0.000	2.810	172993.	-237366.
MONTHLY SUMMARY (MAY)					
MN	1600.	0.000	0.000	0.	-379785.
MX	272342.	16.338	4.496	302088.	0.
SM	17417818.	1615.261	2265.883	134985248.	-191411776.
AV	23411.	2.171	3.046	181432.	-257274.
MONTHLY SUMMARY (JUN)					
MN	1600.	0.000	0.000	0.	-379785.
MX	96079.	26.557	4.496	297325.	0.
SM	2447781.	4471.783	2041.093	119141760.	-172422480.
AV	3400.	6.211	2.835	165475.	-239476.
MONTHLY SUMMARY (JUL)					
MN	1600.	0.000	0.000	0.	-379785.
MX	17047.	26.554	4.496	315543.	0.
SM	1205847.	5592.173	2090.547	124441592.	-176600128.
AV	1621.	7.516	2.810	167260.	-237366.

	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (AUG)					
MN	1600.	0.000	0.000	0.	-379785.
MX	123621.	26.828	4.496	305176.	0.
SM	2571889.	5470.581	2104.034	124617816.	-177739472.
AV	3457.	7.353	2.828	167497.	-238897.
MONTHLY SUMMARY (SEP)					
MN	1600.	0.000	0.000	0.	-379785.
MX	144546.	23.770	4.496	306481.	0.
SM	6318722.	3069.042	2104.034	123921768.	-177739456.
AV	8776.	4.263	2.922	172114.	-246860.
MONTHLY SUMMARY (OCT)					
MN	1600.	0.000	0.000	0.	-379785.
MX	347263.	12.073	4.496	306464.	0.
SM	21426196.	658.032	2225.421	134198952.	-187993696.
AV	28799.	0.884	2.991	180375.	-252680.
MONTHLY SUMMARY (NOV)					
MN	1600.	0.000	0.000	0.	-379785.
MX	457780.	0.017	4.496	312371.	0.
SM	45126656.	0.053	2072.564	132452408.	-175080944.
AV	62676.	0.000	2.879	183962.	-243168.
MONTHLY SUMMARY (DEC)					
MN	1600.	0.000	0.000	0.	-379785.
MX	457328.	0.000	4.496	332132.	0.
SM	91304520.	0.000	2207.438	147398560.	-186474528.
AV	122721.	0.000	2.967	198116.	-250638.
YEARLY SUMMARY					
MN	1600.	0.000	0.000	0.	-379785.
MX	511097.	26.828	4.496	346317.	0.
SM	461048064.	20877.078	25482.197	1587433344.	-2152622848.
AV	52631.	2.383	2.909	181214.	-245733.

MMDDHH	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC-1_2	AC-1_2	AC-1_2
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	832848.	0.000	6.171	540233.	0.	737233.	0.000	6.590
SM	153633472.	0.000	3030.158	235102800.	-331591328.	141700576.	0.000	3202.886
AV	206497.	0.000	4.073	315998.	-445687.	190458.	0.000	4.305
MONTHLY SUMMARY (FEB)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	805260.	0.022	6.171	540233.	0.	726443.	0.000	6.590
SM	122273624.	0.022	2764.788	210208848.	-302551744.	112266488.	0.000	2919.503
AV	181955.	0.000	4.114	312811.	-450226.	167063.	0.000	4.344
MONTHLY SUMMARY (MAR)								
MN	1600.	0.000	0.000	0.	-675339.	1500.	0.000	0.000
MX	623133.	0.026	6.171	498977.	0.	665536.	0.055	6.590
SM	80023848.	0.026	2937.587	213988032.	-321461216.	73217440.	0.066	3110.622
AV	107559.	0.000	3.948	287618.	-432072.	98411.	0.000	4.181
MONTHLY SUMMARY (APR)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	521193.	0.042	6.171	487280.	0.	502564.	0.008	6.590
SM	30439260.	0.072	2777.131	194114048.	-303902400.	27199544.	0.003	2965.635
AV	42277.	0.000	3.857	269603.	-422087.	37777.	0.000	4.119
MONTHLY SUMMARY (MAY)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	425613.	26.719	6.171	471238.	0.	369388.	24.385	6.590
SM	24479270.	2745.316	3042.501	205842432.	-332941984.	21963516.	2583.402	3301.740
AV	32902.	3.690	4.089	276670.	-447503.	29521.	3.472	4.438
MONTHLY SUMMARY (JUN)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	150275.	42.747	6.171	466078.	0.	145486.	38.285	6.590
SM	2592877.	7600.834	2789.473	186456896.	-305253088.	2591322.	6848.656	2985.406
AV	4157.	10.557	3.874	258968.	-423963.	3536.	9.512	4.146
MONTHLY SUMMARY (JUL)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	50444.	41.213	6.171	494582.	0.	19336.	38.426	6.590
SM	1311290.	9460.715	2869.702	196751008.	-314032480.	1208136.	8412.823	3064.490
AV	1762.	12.716	3.857	264450.	-422087.	1624.	11.308	4.119



	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC-1_2	AC-1_2	AC-1_2
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (AUG)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	194456.	42.187	6.171	474890.	0.	169238.	38.406	6.590
SM	2849411.	9379.327	2882.044	196589648.	-315383168.	2914916.	8334.772	3077.670
AV	3830.	12.607	3.874	264233.	-423902.	3918.	11.203	4.137
MONTHLY SUMMARY (SEP)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	257325.	39.691	6.171	481120.	0.	210221.	35.489	6.590
SM	8185074.	5306.839	2838.844	191056272.	-310655776.	7610980.	4798.040	3057.899
AV	11368.	7.371	3.943	265356.	-431466.	10571.	6.664	4.247
MONTHLY SUMMARY (OCT)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	475471.	21.313	6.171	478065.	0.	490815.	17.654	6.590
SM	28540580.	1269.425	3011.644	205999360.	-329565248.	25990076.	1084.975	3249.018
AV	38361.	1.706	4.048	276881.	-442964.	34933.	1.458	4.367
MONTHLY SUMMARY (NOV)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	573722.	3.113	6.171	487280.	0.	623263.	0.085	6.590
SM	62027612.	12.120	2851.187	206921776.	-312006432.	58059788.	0.127	3031.538
AV	86149.	0.017	3.960	287391.	-433342.	80639.	0.000	4.210
MONTHLY SUMMARY (DEC)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	661587.	0.000	6.171	518105.	0.	671273.	0.000	6.590
SM	130335024.	0.000	3030.158	229909312.	-331591296.	121289976.	0.000	3216.067
AV	175181.	0.000	4.073	309018.	-445687.	163024.	0.000	4.323
YEARLY SUMMARY								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	332348.	42.747	6.171	540233.	0.	737233.	38.426	6.590
SM	647091328.	35774.699	34825.219	2472940544.	-3810935808.	596003328.	32062.867	37182.473
AV	73869.	4.084	3.975	282299.	-435038.	68037.	3.660	4.245

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MMDDHH	AC-1_2	AC-1_2	AC_EXP	AC_EXP	AC_EXP	AC_EXP	AC_EXP
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	503066.	0.	702198.	0.000	6.171	470959.	0.
SM	216581712.	-270565440.	178185584.	0.000	3030.158	204950944.	-255974208.
AV	291104.	-363663.	239497.	0.000	4.073	275472.	-344051.
MONTHLY SUMMARY (FEB)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	503066.	0.	707114.	0.000	6.171	470959.	0.
SM	193307200.	-246626528.	151084224.	0.000	2777.131	184122000.	-234599552.
AV	287660.	-367004.	224828.	0.000	4.133	273991.	-349106.
MONTHLY SUMMARY (MAR)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	462455.	0.	683642.	0.000	6.171	434992.	0.
SM	197482896.	-262771360.	116119720.	0.000	2949.930	187375808.	-249196864.
AV	265434.	-353187.	156075.	0.000	3.965	251349.	-334942.
MONTHLY SUMMARY (APR)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	453756.	0.	578304.	0.033	6.171	424795.	0.
SM	181035488.	-250523552.	57130036.	0.062	2789.474	169749696.	-235642224.
AV	251438.	-347949.	79347.	0.000	3.874	235763.	-327281.
MONTHLY SUMMARY (MAY)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	438813.	0.	417429.	15.874	6.171	410811.	0.
SM	194594640.	-278916256.	43972004.	1128.736	3326.385	196375392.	-230998176.
AV	261552.	-374887.	59102.	1.517	4.471	264617.	-377686.
MONTHLY SUMMARY (JUN)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	431935.	0.	175803.	33.047	6.171	402960.	0.
SM	171685712.	-252193712.	8290745.	4374.082	2894.387	158223008.	-244504896.
AV	238452.	-350269.	11515.	6.075	4.020	233651.	-339590.
MONTHLY SUMMARY (JUL)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	458415.	0.	82800.	36.061	6.171	436567.	0.
SM	179588432.	-258874336.	1982693.	5754.853	2869.702	169957920.	-242419536.
AV	241352.	-347949.	2665.	7.735	3.857	225438.	-325833.

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	AC-1_2	AC-1_2	AC_EXP	AC_EXP	AC_EXP	AC_EXP	AC_EXP
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (AUG)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	442854.	0.	193980.	34.079	6.171	412019.	0.
SM	179415840.	-259987776.	5437971.	5609.399	2925.244	172573360.	-247111536.
AV	241150.	-349446.	7309.	7.540	3.932	231953.	-332139.
MONTHLY SUMMARY (SEP)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	445032.	0.	246051.	26.776	6.171	414408.	0.
SM	177876240.	-258317632.	17260532.	2803.795	3042.500	178090128.	-257016880.
AV	247050.	-358775.	23973.	3.894	4.226	247347.	-356968.
MONTHLY SUMMARY (OCT)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	445175.	0.	563664.	11.061	6.171	416762.	0.
SM	194015360.	-274462464.	50109640.	369.307	3165.929	189011104.	-267443504.
AV	260773.	-368901.	67352.	0.496	4.255	254047.	-359467.
MONTHLY SUMMARY (NOV)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	453756.	0.	639458.	0.000	6.171	424795.	0.
SM	192081440.	-256090752.	88326768.	0.000	2863.530	180931040.	-241898208.
AV	266780.	-355682.	122676.	0.000	3.977	251293.	-335970.
MONTHLY SUMMARY (DEC)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	482461.	0.	676279.	0.000	6.171	451668.	0.
SM	212702576.	-271678880.	157974160.	0.000	3036.329	200869760.	-256495520.
AV	285891.	-365160.	212331.	0.000	4.081	269986.	-344752.
YEARLY SUMMARY							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	503066.	0.	707114.	36.061	6.171	470959.	0.
SM	2290367488.	-3141008896.	875874112.	20040.232	35670.699	2202736128.	-3013301248.
AV	261457.	-358563.	99986.	2.288	4.072	251454.	-343984.

DOE-2.1D 6/12/1996 9:17:26 PDL RUN 1  
BUILDING 2790 - NEW  
WEATHER FILE- BALTIMORE, MD

[illegible]

S I T E E N E R G Y													* SOURCE
2	3	4	5	6	7	8	9	10	11	12	13	14	
MONTH	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	0.0	0.0	338.1 99.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	726.0	1064.2	1741.4
FEB	0.0	0.0	301.3 88.2E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	584.4	885.7	1489.2
MAR	0.0	0.0	345.7 101.2E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	380.9	726.6	1419.0
APR	0.0	0.0	335.9 98.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	154.3	490.1	1162.9
MAY	0.0	0.0	399.4 117.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	128.8	528.2	1328.3
JUN	0.0	0.0	492.5 144.2E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	25.7	518.2	1504.7
JUL	0.0	0.0	518.2 151.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	15.2	533.4	1571.3
AUG	0.0	0.0	537.3 157.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	24.0	561.4	1537.6
SEP	0.0	0.0	441.9 129.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	50.6	492.4	1377.5
OCT	0.0	0.0	368.4 107.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	148.8	517.2	1255.2
NOV	0.0	0.0	317.9 93.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	288.2	606.1	1243.0
DEC	0.0	0.0	338.3 99.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	604.9	943.1	1620.6
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	0.0	0.0	4734.9 1386.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	3131.3	7866.7	17350.6

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:17:26 PDL RUN 1  
 BUILDING 2790 - NEW  
 WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	FUEL-OIL	NATURAL-GAS
	TOTAL (MBTU)	338.113	0.000	726.047
JAN	PEAK (KBTU)	878.187	0.000	4313.148
	DY/HR	6/ 9	31/24	31/ 7
	TOTAL (MBTU)	301.281	0.000	584.444
FEB	PEAK (KBTU)	878.288	0.000	4110.207
	DY/HR	10/ 9	28/24	14/ 7
	TOTAL (MBTU)	345.703	0.000	380.894
MAR	PEAK (KBTU)	882.525	0.000	3713.113
	DY/HR	26/17	31/24	7/ 7
	TOTAL (MBTU)	335.879	0.000	154.259
APR	PEAK (KBTU)	1002.506	0.000	2676.223
	DY/HR	19/19	30/ 1	9/ 7
	TOTAL (MBTU)	399.434	0.000	128.767
MAY	PEAK (KBTU)	1420.594	0.000	1985.947
	DY/HR	21/17	31/ 1	10/ 7
	TOTAL (MBTU)	492.481	0.000	25.731
JUN	PEAK (KBTU)	1714.944	0.000	565.396
	DY/HR	28/17	30/ 1	22/ 7
	TOTAL (MBTU)	518.159	0.000	15.231
JUL	PEAK (KBTU)	1719.635	0.000	182.427
	DY/HR	25/14	31/ 1	21/ 7
	TOTAL (MBTU)	537.338	0.000	24.020
AUG	PEAK (KBTU)	1720.256	0.000	778.330
	DY/HR	18/17	31/ 1	22/ 5
	TOTAL (MBTU)	441.874	0.000	50.550
SEP	PEAK (KBTU)	1649.336	0.000	1013.475
	DY/HR	1/17	30/ 1	30/ 7
	TOTAL (MBTU)	368.426	0.000	148.790
OCT	PEAK (KBTU)	1304.860	0.000	2655.984
	DY/HR	13/17	31/24	24/ 7
	TOTAL (MBTU)	317.933	0.000	288.212
NOV	PEAK (KBTU)	1046.613	0.000	3374.264
	DY/HR	2/19	30/24	25/ 7
	TOTAL (MBTU)	338.263	0.000	604.834
DEC	PEAK (KBTU)	878.187	0.000	3753.023
	DY/HR	31/ 9	31/24	12/ 7
	ONE YEAR	4734.883	0.000	3131.780
	USE/PEAK	1720.256	0.000	4313.148

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D   6/12/1996      9:17:26   PDL RUN 1  
READING, PA      19603      FT. GEORGE G. MEADE      BUILDING 2790 - NEW  
REPORT- PS-D PLANT LOADS SATISFIED      WEATHER FILE- BALTIMORE, MD

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ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	4734.9	100.0
	=====	=====
LOAD SATISFIED	4734.9	100.0
TOTAL LOAD ON PLANT	4734.9	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
ST. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:17:26 PDL RUN 1  
BUILDING 2790 - NEW

WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
ELECTRICAL LOADS	4734.9	4734.9	0.000	0.000	0



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:17:26 PDL RUN 1  
BUILDING 2790 - NEW  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
			DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.000	0.000	0	0	0	0.000	0							

ENTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D 6/12/1996	9:17:26 PDL RUN 1
READING, PA 19603	PT. GEORGE G. MEADE	BUILDING 2790 - NEW	
REPORT- PS-1 EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD	

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E Q U I P M E N T T O T A L S

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HW-BOILER	0.1		
NOMINAL SIZE (MBTU)		0.000	
NUMBER INSTALLED		1	
FIRST COST (K\$)	0.0	0.0	
ANNUAL COST (K\$)	0.1	0.1	
CYCLICAL COST (K\$)	0.0	0.0	
-----TOTAL----- (K\$)		0.1	
<hr/>			
EQUIPMENT TOTAL	0.1		

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	0.00	0.00	3131.78
SPACE COOL	775.91	0.00	0.00
HVAC AUX	784.31	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	2778.61	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	396.18	0.00	0.00
	-----	-----	-----
TOTAL	4735.01	0.00	3131.78

TOTAL SITE ENERGY    7866.66 MBTU    100.3 KBTU/SQFT-YR GROSS-AREA    100.3 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY    17350.65 MBTU    221.2 KBTU/SQFT-YR GROSS-AREA    221.2 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.3  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

BUILDING 2790  
N/SETBACK, TENT  
FILE: FIM2790N

ENTECH ENGINEERING READING, PA 19603 SH-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 6/12/1996 BUILDING 2790 - NEW		9:34:28 SDL RUN 1
PAGE 1- 1								
MMDDHH	AC-17	AC-17	AC-17	AC-17	AC-17	AC-18	AC-18	AC-18
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	HEATING GAS BTU/HR	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- (47)	---- (49)	---- (45)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	0.048	2.165	214430.	169898.	0.	190751.	0.033	2.106
SM	0.078	1024.187	16621206.	71152744.	-86518744.	9901319.	0.033	994.173
AV	0.000	1.377	22340.	95635.	-116289.	13308.	0.000	1.336
MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	0.066	2.165	198835.	169898.	0.	180392.	0.049	2.106
SM	0.077	922.418	13001659.	62689856.	-77921744.	9429851.	0.061	893.071
AV	0.000	1.373	19348.	93288.	-115955.	12544.	0.000	1.329
MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	0.037	2.165	164339.	156182.	0.	136881.	1.438	2.106
SM	0.037	1011.195	5917055.	66060644.	-85421248.	3149055.	8.961	979.429
AV	0.000	1.359	7953.	88791.	-114814.	4233.	0.012	1.316
MONTHLY SUMMARY (APR)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	4.511	2.165	96747.	153244.	0.	53188.	5.370	2.106
SM	103.966	974.385	1969425.	62026636.	-82311696.	1265497.	243.514	949.941
AV	0.144	1.353	2735.	86148.	-114322.	1758.	0.338	1.319
MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	9.323	2.165	73180.	148199.	0.	51620.	9.337	2.106
SM	1519.921	1030.683	2165031.	62307404.	-87067472.	1663120.	1637.060	989.961
AV	2.243	1.385	2910.	83747.	-117026.	2235.	2.200	1.331
MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	13.003	2.165	9381.	148995.	0.	1600.	12.580	2.106
SM	2905.021	974.385	1166680.	57482560.	-82311696.	1152000.	2942.885	947.835
AV	4.035	1.353	1620.	79837.	-114322.	1600.	4.087	1.316
MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	13.013	2.165	1600.	156885.	0.	1600.	12.697	2.106
SM	3339.793	1006.864	1190400.	60419492.	-85055416.	1190400.	3338.120	979.429
AV	4.489	1.353	1600.	81209.	-114322.	1600.	4.487	1.316

	AC-17	AC-17	AC-17	AC-17	AC-17	AC-18	AC-18	AC-18
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	HEATING GAS BTU/HR	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(47)	----(49)	----(45)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	13.056	2.165	15066.	151042.	0.	1600.	12.736	2.106
SM	3414.456	1006.864	1203866.	60244364.	-85055416.	1190400.	3429.375	979.429
AV	4.589	1.353	1618.	80974.	-114322.	1600.	4.609	1.316
MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	12.424	2.165	33045.	152929.	0.	21101.	12.137	2.106
SM	2266.875	974.385	1332561.	58234628.	-82311696.	1217557.	2341.332	947.835
AV	3.148	1.353	1851.	80881.	-114322.	1691.	3.252	1.316
MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	7.861	2.165	76522.	150347.	0.	53898.	8.093	2.106
SM	993.811	1019.856	2409018.	62628180.	-86152904.	1769228.	1135.594	979.429
AV	1.336	1.371	3238.	84178.	-115797.	2378.	1.526	1.316
MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	5.730	2.165	143584.	159490.	0.	102645.	6.180	2.106
SM	103.162	976.550	3963308.	63839188.	-82494608.	1965611.	147.553	952.047
AV	0.143	1.356	5505.	88666.	-114576.	2730.	0.205	1.322
MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	0.013	2.165	166804.	162939.	0.	138313.	0.017	2.106
SM	0.028	1022.021	12013590.	69400344.	-86335832.	5752729.	0.017	979.429
AV	0.000	1.374	16147.	93280.	-116043.	9076.	0.000	1.316
YEARLY SUMMARY								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	13.056	2.165	214430.	169898.	0.	190751.	12.736	2.106
SM	14647.227	11943.793	62953800.	756485952.	-1008958400.	39646764.	15224.506	11572.011
AV	1.672	1.363	7187.	86357.	-115178.	4526.	1.738	1.321

MMDDHH	AC-18	AC-18	AC-19	AC-19	AC-19	AC-19	AC-19	AC-21
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR
	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)
MONTHLY SUMMARY (JAN)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	165524.	0.	190751.	0.033	2.106	165524.	0.	215031.
SM	69180232.	-83983344.	9901319.	0.033	994.173	69180232.	-83983344.	16159035.
AV	92984.	-112881.	13308.	0.000	1.336	92984.	-112881.	21719.
MONTHLY SUMMARY (FEB)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	165524.	0.	180392.	0.049	2.106	165524.	0.	198659.
SM	60815464.	-75442680.	8429851.	0.061	893.071	60815464.	-75442680.	12688852.
AV	90499.	-112266.	12544.	0.000	1.329	90499.	-112266.	18882.
MONTHLY SUMMARY (MAR)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	152162.	0.	136881.	1.438	2.106	152162.	0.	162207.
SM	64145732.	-82737840.	3149055.	8.961	979.429	64145732.	-82737840.	5657768.
AV	86217.	-111207.	4233.	0.012	1.316	86217.	-111207.	7605.
MONTHLY SUMMARY (APR)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	149299.	0.	53188.	5.370	2.106	149299.	0.	96526.
SM	60684116.	-80246808.	1265497.	243.514	949.941	60684116.	-80246808.	1927355.
AV	84283.	-111454.	1758.	0.338	1.319	84283.	-111454.	2677.
MONTHLY SUMMARY (MAY)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	144384.	0.	61620.	9.337	2.106	144384.	0.	73395.
SM	59837944.	-83627488.	1663120.	1637.060	989.961	59837944.	-83627488.	2139116.
AV	80427.	-112403.	2235.	2.200	1.331	80427.	-112403.	2875.
MONTHLY SUMMARY (JUN)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	145453.	0.	1600.	12.680	2.106	145453.	0.	9218.
SM	55995808.	-80068880.	1152000.	2942.885	947.835	55995808.	-80068880.	1166268.
AV	77772.	-111207.	1600.	4.087	1.316	77772.	-111207.	1620.
MONTHLY SUMMARY (JUL)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	153000.	0.	1600.	12.697	2.106	153000.	0.	1600.
SM	58834700.	-82737840.	1190400.	3338.120	979.429	58834700.	-82737840.	1190400.
AV	79079.	-111207.	1600.	4.487	1.316	79079.	-111207.	1600.

ENTECH ENGINEERING  
READING, PA 19603  
SH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 5/12/1996  
BUILDING 2790 - NEW

9:34:28 SDL RUN 1

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	AC-18	AC-18	AC-19	AC-19	AC-19	AC-19	AC-19	AC-21
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR
	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)
MONTHLY SUMMARY (AUG)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	147283.	0.	1600.	12.736	2.106	147283.	0.	14651.
SM	58669200.	-82737840.	1190400.	3429.375	979.429	58669200.	-82737840.	1203452.
AV	78856.	-111207.	1600.	4.609	1.316	78856.	-111207.	1618.
MONTHLY SUMMARY (SEP)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	149411.	0.	21101.	12.137	2.106	149411.	0.	30672.
SM	56723424.	-80068880.	1217557.	2341.332	947.835	56723424.	-80068880.	1301849.
AV	78783.	-111207.	1691.	3.252	1.316	78783.	-111207.	1808.
MONTHLY SUMMARY (OCT)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	146476.	0.	53898.	8.093	2.106	146476.	0.	71457.
SM	60235636.	-82737840.	1769228.	1135.594	979.429	60235636.	-82737840.	2265408.
AV	80962.	-111207.	2378.	1.526	1.316	80962.	-111207.	3045.
MONTHLY SUMMARY (NOV)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	154083.	0.	102645.	6.180	2.106	154083.	0.	140874.
SM	62453864.	-80424744.	1965611.	147.553	952.047	62453864.	-80424744.	3748036.
AV	86741.	-111701.	2730.	0.205	1.322	86741.	-111701.	5206.
MONTHLY SUMMARY (DEC)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	158744.	0.	138313.	0.017	2.106	158744.	0.	165391.
SM	66582036.	-82737840.	6752729.	0.017	979.429	66582036.	-82737840.	11576574.
AV	89492.	-111207.	9076.	0.000	1.316	89492.	-111207.	15560.
YEARLY SUMMARY								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	165524.	0.	190751.	12.736	2.106	165524.	0.	215031.
SM	734158208.	-977552064.	39646764.	15224.506	11572.011	734158208.	-977552064.	61024112.
AV	83803.	-111593.	4526.	1.738	1.321	83803.	-111593.	6966.

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MMDDHH	AC-21	AC-21	AC-21	AC-21	AC-25	AC-25	AC-25	AC-25
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR
	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)
MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	0.008	2.189	171647.	0.	227746.	0.000	2.248	176019.
SM	0.013	1035.350	71886448.	-87461704.	21337434.	0.000	1070.000	74169232.
AV	0.000	1.392	96622.	-117556.	28679.	0.000	1.438	99690.
MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	0.096	2.189	171647.	0.	212237.	0.016	2.248	176019.
SM	0.119	928.094	63043756.	-78401200.	16571475.	0.016	973.341	66029348.
AV	0.000	1.381	93815.	-116668.	24660.	0.000	1.448	98258.
MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	0.033	2.189	157790.	0.	176937.	0.020	2.248	161809.
SM	0.033	1022.216	66747488.	-86352256.	8120709.	0.056	1054.265	68720104.
AV	0.000	1.374	89714.	-116065.	10915.	0.000	1.417	92366.
MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	4.798	2.189	154822.	0.	115365.	4.035	2.248	158755.
SM	113.626	985.005	62667836.	-83208816.	2652968.	61.434	1011.555	64106336.
AV	0.158	1.368	87039.	-115568.	3699.	0.085	1.405	89037.
MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	9.440	2.189	149725.	0.	84192.	9.507	2.248	153539.
SM	1537.111	1041.916	62948756.	-88016424.	2569776.	1460.727	1072.248	64731728.
AV	2.066	1.400	84609.	-118302.	3454.	1.963	1.441	87005.
MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	13.133	2.189	150569.	0.	17908.	13.457	2.248	154150.
SM	2930.014	985.005	58070108.	-83208816.	1191772.	2921.020	1011.555	59558924.
AV	4.069	1.368	80653.	-115568.	1655.	4.057	1.405	82721.
MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	13.141	2.189	158548.	0.	1600.	13.461	2.248	162384.
SM	3371.335	1017.838	61029364.	-85982440.	1190400.	3383.343	1045.274	62604344.
AV	4.531	1.368	82029.	-115568.	1600.	4.548	1.405	84146.



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	AC-21	AC-21	AC-21	AC-21	AC-25	AC-25	AC-25	AC-25
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR
	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	13.193	2.189	152634.	0.	24213.	13.513	2.248	156413.
SM	3459.631	1017.838	60841692.	-85982440.	1223584.	3454.380	1045.274	62423708.
AV	4.650	1.368	81776.	-115568.	1645.	4.643	1.405	83903.
MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	12.570	2.189	154623.	0.	41386.	12.256	2.248	158199.
SM	2320.094	985.005	58820752.	-83208816.	1453107.	2253.543	1011.555	60341792.
AV	3.222	1.368	81695.	-115568.	2018.	3.230	1.405	83808.
MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	8.115	2.189	151894.	0.	92647.	7.341	2.248	155753.
SM	1038.399	1028.783	63141992.	-86906976.	2986440.	924.974	1063.257	65154072.
AV	1.396	1.383	84868.	-116810.	4014.	1.243	1.429	87573.
MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.	-184909.	1500.	0.000	0.000	0.
MX	5.892	2.189	161206.	0.	157423.	5.434	2.248	164497.
SM	108.451	989.383	64651672.	-83578632.	5751224.	83.178	1016.051	66247152.
AV	0.151	1.374	89794.	-116081.	7988.	0.226	1.411	92010.
MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	0.043	2.189	164616.	0.	177643.	0.000	2.248	168809.
SM	0.051	1033.161	70117504.	-87276800.	16026200.	0.000	1076.744	73013152.
AV	0.000	1.389	94244.	-117308.	21541.	0.000	1.447	98135.
YEARLY SUMMARY								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	13.193	2.189	171647.	0.	227746.	13.513	2.248	176019.
SM	14878.878	12069.595	763967424.	-1019585408.	81085088.	14542.571	12451.119	787099904.
AV	1.699	1.378	87211.	-116391.	9256.	1.560	1.421	89852.

MMDDHH	AC-25	AC-22	AC-22	AC-22	AC-22	AC-22	AC-23	AC-23
	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW
	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)
MONTHLY SUMMARY (JAN)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	209073.	0.028	2.183	171210.	0.	209073.	0.028
SM	-90388872.	14577701.	0.028	1032.559	71707784.	-87226000.	14577701.	0.028
AV	-121490.	19594.	0.000	1.388	96381.	-117239.	19594.	0.000
MONTHLY SUMMARY (FEB)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	194351.	0.023	2.183	171210.	0.	194351.	0.023
SM	-82223496.	11533005.	0.101	925.592	62887812.	-78189904.	11533005.	0.101
AV	-122356.	17162.	0.000	1.377	93583.	-116354.	17162.	0.000
MONTHLY SUMMARY (MAR)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	157416.	0.011	2.183	157388.	0.	157416.	0.011
SM	-89059632.	4844976.	0.011	1017.278	66441924.	-85935128.	4844976.	0.011
AV	-119704.	6512.	0.000	1.367	89304.	-115504.	6512.	0.000
MONTHLY SUMMARY (APR)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	87686.	4.984	2.183	154428.	0.	87686.	4.984
SM	-85451672.	1627457.	145.169	982.350	62551852.	-82984568.	1627457.	145.169
AV	-118683.	2260.	0.202	1.364	86878.	-115256.	2260.	0.202
MONTHLY SUMMARY (MAY)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	71543.	9.516	2.183	149344.	0.	71543.	9.516
SM	-90578734.	1960254.	1573.630	1032.559	62340436.	-87226000.	1960254.	1573.630
AV	-121746.	2635.	2.115	1.388	83791.	-117239.	2635.	2.115
MONTHLY SUMMARY (JUN)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	8144.	13.102	2.183	150222.	0.	8144.	13.102
SM	-85451672.	1162939.	2955.094	982.350	57917736.	-82984568.	1162939.	2955.094
AV	-118683.	1615.	4.104	1.364	80441.	-115256.	1615.	4.104
MONTHLY SUMMARY (JUL)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	1600.	13.114	2.183	158061.	0.	1600.	13.114
SM	-88300064.	1190400.	3377.453	1015.095	60869760.	-85750720.	1190400.	3377.453
AV	-118683.	1600.	4.540	1.364	81814.	-115256.	1600.	4.540

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	AC-25	AC-22	AC-22	AC-22	AC-22	AC-22	AC-23	AC-23
	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW
	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)
MONTHLY SUMMARY (AUG)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	10821.	13.161	2.183	152251.	0.	10821.	13.161
SM	-88300064.	1199622.	3465.539	1015.095	60690616.	-85750720.	1199622.	3465.539
AV	-118683.	1612.	4.658	1.364	81573.	-115256.	1612.	4.658
MONTHLY SUMMARY (SEP)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	29751.	12.540	2.183	154269.	0.	29751.	12.540
SM	-85451672.	1287866.	2320.114	982.350	58678048.	-82984568.	1287866.	2320.114
AV	-118683.	1789.	3.222	1.364	81497.	-115256.	1789.	3.222
MONTHLY SUMMARY (OCT)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	67733.	8.063	2.183	151507.	0.	67733.	8.063
SM	-89819200.	2152313.	1055.385	1023.827	62842312.	-86488360.	2152313.	1055.385
AV	-120725.	2893.	1.419	1.376	84465.	-116248.	2893.	1.419
MONTHLY SUMMARY (NOV)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	132625.	5.858	2.183	158840.	0.	132625.	5.858
SM	-85831456.	3257296.	114.483	986.716	64505120.	-83353384.	3257296.	114.483
AV	-119210.	4524.	0.159	1.370	89590.	-115769.	4524.	0.159
MONTHLY SUMMARY (DEC)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	161860.	0.028	2.183	164197.	0.	161860.	0.028
SM	-90958552.	10198401.	0.039	1026.010	69632184.	-86672768.	10198401.	0.039
AV	-122256.	13708.	0.000	1.379	93592.	-116496.	13708.	0.000
YEARLY SUMMARY								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	209073.	13.161	2.183	171210.	0.	209073.	13.161
SM	-1051815104.	54992232.	15007.045	12021.779	761065664.	-1015546752.	54992232.	15007.045
AV	-120070.	6278.	1.713	1.372	86880.	-115930.	6278.	1.713

MMDDHH	AC-23	AC-23	AC-23	AC-24	AC-24	AC-24	AC-24	AC-24
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (JAN)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	171210.	0.	229305.	0.016	2.266	177330.	0.
SM	1032.559	71707784.	-87226000.	20810556.	0.029	1078.426	74722200.	-91100576.
AV	1.388	96381.	-117239.	27971.	0.000	1.449	100433.	-122447.
MONTHLY SUMMARY (FEB)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	171210.	0.	211839.	0.037	2.266	177330.	0.
SM	925.592	62887812.	-78189904.	16115346.	0.067	981.005	66522244.	-82870896.
AV	1.377	93583.	-116354.	23981.	0.000	1.460	98991.	-123320.
MONTHLY SUMMARY (MAR)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	157388.	0.	175511.	0.000	2.266	163014.	0.
SM	1017.278	66441924.	-85935128.	7871895.	0.000	1062.567	69235928.	-89760856.
AV	1.367	89304.	-115504.	10581.	0.000	1.428	93059.	-120646.
MONTHLY SUMMARY (APR)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	154428.	0.	115219.	4.231	2.266	159948.	0.
SM	982.350	62551852.	-82984568.	2604884.	67.859	1019.520	64591256.	-86124488.
AV	1.364	86878.	-115256.	3618.	0.094	1.416	89710.	-119617.
MONTHLY SUMMARY (MAY)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	149344.	0.	84283.	9.618	2.266	154682.	0.
SM	1032.559	62340436.	-87226000.	2542946.	1477.246	1080.691	65209720.	-91291960.
AV	1.388	83791.	-117239.	3418.	1.986	1.453	87647.	-122704.
MONTHLY SUMMARY (JUN)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	150221.	0.	17642.	13.555	2.266	155339.	0.
SM	982.350	57917736.	-82984568.	1191115.	2943.063	1019.520	59999192.	-86124488.
AV	1.364	80441.	-115256.	1654.	4.088	1.416	83332.	-119617.
MONTHLY SUMMARY (JUL)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	158061.	0.	1600.	13.558	2.266	163628.	0.
SM	1015.095	60869760.	-85750720.	1190400.	3411.089	1053.504	63059056.	-88995304.
AV	1.364	81814.	-115256.	1600.	4.585	1.416	84757.	-119617.

	AC-23	AC-23	AC-23	AC-24	AC-24	AC-24	AC-24	AC-24
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	152251.	0.	23792.	13.618	2.266	157617.	0.
SM	1015.095	60690616.	-85750720.	1221738.	3495.572	1053.504	62867544.	-88995304.
AV	1.364	81573.	-115256.	1642.	4.698	1.416	84499.	-119617.
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	154269.	0.	38986.	12.974	2.266	159494.	0.
SM	982.350	58678048.	-82984568.	1411166.	2303.007	1019.520	60778844.	-86124488.
AV	1.364	81497.	-115256.	1960.	3.199	1.416	84415.	-119617.
MONTHLY SUMMARY (OCT)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	151507.	0.	87719.	8.089	2.266	156923.	0.
SM	1023.827	62842312.	-86488360.	2829843.	965.678	1069.363	65497150.	-90335016.
AV	1.376	84465.	-116248.	3804.	1.298	1.437	88034.	-121418.
MONTHLY SUMMARY (NOV)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	158840.	0.	157901.	5.591	2.266	165876.	0.
SM	986.716	64505120.	-83353384.	5449599.	88.607	1024.051	66746812.	-86507264.
AV	1.370	89590.	-115769.	7569.	0.123	1.422	92704.	-120149.
MONTHLY SUMMARY (DEC)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	164197.	0.	176438.	0.017	2.266	170066.	0.
SM	1026.010	69632184.	-86672768.	15583382.	0.017	1080.691	73234288.	-91291952.
AV	1.379	93592.	-116496.	20945.	0.000	1.453	98433.	-122704.
YEARLY SUMMARY								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	171210.	0.	229305.	13.618	2.266	177330.	0.
SM	12021.779	761065664.	-1015546752.	78823272.	14752.236	12542.363	792464320.	-1059522624.
AV	1.372	86880.	-115930.	3998.	1.684	1.432	90464.	-120950.

ENTECH ENGINEERING  
READING, PA 19603  
SH-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:34:28 SDL RUN 1  
BUILDING 2790 - NEW

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MMDDHH	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (JAN)					
MN	1600.	0.000	0.000	0.	-379785.
MX	510277.	0.000	4.496	346317.	0.
SM	97580168.	0.000	2198.446	150074208.	-185714960.
AV	131156.	0.000	2.955	201713.	-249617.
MONTHLY SUMMARY (FEB)					
MN	1600.	0.000	0.000	0.	-379785.
MX	511119.	0.000	4.496	346317.	0.
SM	81991520.	0.000	1996.135	133501488.	-168624640.
AV	122011.	0.000	2.970	198663.	-250930.
MONTHLY SUMMARY (MAR)					
MN	1600.	0.000	0.000	0.	-379785.
MX	462382.	0.037	4.496	319870.	0.
SM	55946136.	0.037	2117.522	135706672.	-178878832.
AV	75196.	0.000	2.846	182401.	-240429.
MONTHLY SUMMARY (APR)					
MN	1600.	0.000	0.000	0.	-379785.
MX	366208.	0.067	4.496	312371.	0.
SM	21670370.	0.067	2023.110	124558696.	-170903344.
AV	30098.	0.000	2.810	172998.	-237366.
MONTHLY SUMMARY (MAY)					
MN	1600.	0.000	0.000	0.	-379785.
MX	255538.	16.338	4.496	302088.	0.
SM	13688585.	1627.266	2265.883	135136496.	-191411776.
AV	18399.	2.187	3.046	181635.	-257274.
MONTHLY SUMMARY (JUN)					
MN	1600.	0.000	0.000	0.	-379785.
MX	84920.	26.551	4.496	300275.	0.
SM	2150103.	4469.368	2036.598	118868832.	-172042704.
AV	2986.	6.207	2.829	165096.	-238948.
MONTHLY SUMMARY (JUL)					
MN	1600.	0.000	0.000	0.	-379785.
MX	17056.	26.549	4.496	316903.	0.
SM	1205856.	5566.915	2090.547	124330880.	-176600128.
AV	1621.	7.482	2.810	167111.	-237366.

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BUILDING 2790 - NEW

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	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (AUG)					
MN	1600.	0.000	0.000	0.	-379785.
MX	84000.	26.828	4.496	305036.	0.
SM	2039008.	5475.979	2104.034	124686640.	-177739472.
AV	2741.	7.360	2.828	167590.	-238897.
MONTHLY SUMMARY (SEP)					
MN	1600.	0.000	0.000	0.	-379785.
MX	130282.	23.770	4.496	307778.	0.
SM	4882781.	3086.183	2099.539	123737584.	-177359680.
AV	6782.	4.286	2.916	171858.	-246333.
MONTHLY SUMMARY (OCT)					
MN	1600.	0.000	0.000	0.	-379785.
MX	312343.	12.092	4.496	306464.	0.
SM	18607804.	665.461	2220.925	134023424.	-187613920.
AV	25010.	0.894	2.985	180139.	-252169.
MONTHLY SUMMARY (NOV)					
MN	1600.	0.000	0.000	0.	-379785.
MX	459769.	0.015	4.496	312371.	0.
SM	43200148.	0.028	2059.077	131563384.	-173941600.
AV	60000.	0.000	2.860	182727.	-241586.
MONTHLY SUMMARY (DEC)					
MN	1600.	0.000	0.000	0.	-379785.
MX	463277.	0.000	4.496	332132.	0.
SM	86191032.	0.000	2202.942	147093552.	-186094736.
AV	115848.	0.000	2.961	197706.	-250127.
YEARLY SUMMARY					
MN	1600.	0.000	0.000	0.	-379785.
MX	511119.	26.828	4.496	346317.	0.
SM	429153536.	20891.305	25414.758	1583281792.	-2146925824.
AV	48990.	2.385	2.901	180740.	-245083.

MMDDHH	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC-1_2	AC-1_2	AC-1_2
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (JAN)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	854284.	0.000	6.171	540233.	0.	736730.	0.000	6.590
SM	140958160.	0.000	3017.815	234104064.	-330240640.	131661744.	0.000	3202.886
AV	189460.	0.000	4.056	314656.	-443872.	176965.	0.000	4.305
MONTHLY SUMMARY (FEB)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	810304.	0.000	6.171	540233.	0.	725953.	0.000	6.590
SM	112884904.	0.000	2746.273	208774624.	-300525728.	105560808.	0.000	2906.323
AV	167983.	0.000	4.087	310677.	-447211.	157085.	0.000	4.325
MONTHLY SUMMARY (MAR)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	629613.	0.007	6.171	498977.	0.	678142.	0.055	6.590
SM	74899312.	0.007	2912.902	212134304.	-318759872.	69083752.	0.055	3097.441
AV	100671.	0.000	3.915	285127.	-428441.	92855.	0.000	4.163
MONTHLY SUMMARY (APR)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	521189.	0.000	6.171	487280.	0.	498627.	0.042	6.590
SM	29238248.	0.000	2777.131	194129984.	-303902400.	25724698.	0.079	2965.635
AV	40609.	0.000	3.857	269625.	-422087.	35739.	0.000	4.119
MONTHLY SUMMARY (MAY)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	404611.	26.719	6.171	471238.	0.	346734.	24.385	6.590
SM	17842470.	2764.960	3030.158	205324384.	-331591296.	16646566.	2599.580	3295.150
AV	23982.	3.716	4.073	275974.	-445667.	22374.	3.494	4.429
MONTHLY SUMMARY (JUN)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	150248.	42.747	6.171	471773.	0.	106417.	38.276	6.590
SM	2640373.	7606.702	2777.131	185579920.	-303902400.	2278831.	6849.218	2978.816
AV	3667.	10.565	3.857	257750.	-422087.	3165.	9.513	4.137
MONTHLY SUMMARY (JUL)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	50444.	41.215	6.171	497559.	0.	19359.	38.415	6.590
SM	1311186.	9434.917	2869.702	196170160.	-314032480.	1208159.	8384.795	3064.490
AV	1762.	12.681	3.857	263670.	-422087.	1624.	11.270	4.119



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BUILDING 2790 - NEW

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	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC-1_2	AC-1_2	AC-1_2
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (AUG)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	146358.	42.188	6.171	478353.	0.	119860.	38.406	6.590
SM	2138333.	9387.908	2875.873	196211728.	-314707840.	2239584.	8343.585	3077.670
AV	2874.	12.618	3.865	263725.	-422994.	3010.	11.214	4.137
MONTHLY SUMMARY (SEP)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	237832.	39.691	6.171	484351.	0.	191500.	35.488	6.590
SM	6041854.	5339.935	2826.502	190384144.	-309305088.	5916658.	4827.389	3051.309
AV	8391.	7.417	3.926	264422.	-429590.	3218.	6.705	4.238
MONTHLY SUMMARY (OCT)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	429302.	21.333	6.171	478065.	0.	435700.	17.568	6.590
SM	23072330.	1282.000	3005.472	205738080.	-328889952.	21838666.	1096.029	3242.428
AV	31011.	1.723	4.040	276530.	-442056.	29353.	1.473	4.358
MONTHLY SUMMARY (NOV)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	577747.	3.224	6.171	487280.	0.	625837.	0.085	6.590
SM	58622532.	12.598	2826.502	205077536.	-309305088.	55292532.	0.130	3018.358
AV	81420.	0.017	3.926	284830.	-429590.	76795.	0.000	4.192
MONTHLY SUMMARY (DEC)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	671005.	0.000	6.171	518105.	0.	680043.	0.000	6.590
SM	121150192.	0.000	3030.158	229920704.	-331591296.	114058048.	0.000	3209.476
AV	162850.	0.000	4.073	309033.	-445687.	153304.	0.000	4.314
YEARLY SUMMARY								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	854284.	42.747	6.171	540233.	0.	736730.	38.415	6.590
SM	590809920.	35829.027	34695.617	2463549696.	-3796753920.	551510016.	32109.859	37109.984
AV	67444.	4.090	3.961	281227.	-433419.	62958.	3.664	4.236

MMDDHH	AC-1_2	AC-1_2	AC_EXP	AC_EXP	AC_EXP	AC_EXP	AC_EXP
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	503066.	0.	702260.	0.000	6.171	470959.	0.
SM	216581712.	-270565440.	168438960.	0.000	3023.987	204536176.	-255452880.
AV	291104.	-363663.	226396.	0.000	4.064	274914.	-343351.
MONTHLY SUMMARY (FEB)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	503066.	0.	707131.	0.021	6.171	470959.	0.
SM	192418960.	-245513088.	143864864.	0.021	2777.131	184119952.	-234599552.
AV	286338.	-365347.	214085.	0.000	4.133	273988.	-349106.
MONTHLY SUMMARY (MAR)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	462455.	0.	683018.	0.000	6.171	434992.	0.
SM	196630512.	-261657920.	111779648.	0.000	2919.073	185337392.	-246590192.
AV	264288.	-351691.	150241.	0.000	3.923	249109.	-331438.
MONTHLY SUMMARY (APR)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	453756.	0.	578302.	0.033	6.171	424795.	0.
SM	181044336.	-250523552.	55705468.	0.062	2777.131	168962848.	-234599552.
AV	251450.	-347949.	77369.	0.000	3.857	234671.	-325833.
MONTHLY SUMMARY (MAY)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	438818.	0.	392778.	15.874	6.171	410811.	0.
SM	194397024.	-278359520.	36961968.	1134.337	3320.214	196708208.	-280476832.
AV	261286.	-374139.	49680.	1.525	4.463	264393.	-376935.
MONTHLY SUMMARY (JUN)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	436206.	0.	154566.	33.049	6.171	405634.	0.
SM	171263024.	-251636992.	6757061.	4359.128	2894.387	168200896.	-244504896.
AV	237865.	-349496.	9385.	6.054	4.020	233612.	-339590.
MONTHLY SUMMARY (JUL)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	460402.	0.	82847.	36.032	6.171	434342.	0.
SM	179354240.	-258874336.	1864443.	5731.518	2869.702	169867744.	-242419536.
AV	241068.	-347949.	2506.	7.704	3.857	228317.	-325833.

ENTECH ENGINEERING  
READING, PA 19603  
SH-2 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 6/12/1996  
BUILDING 2790 - NEW

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	AC-1_2	AC-1_2	AC_EXP	AC_EXP	AC_EXP	AC_EXP	AC_EXP
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (AUG)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	442745.	0.	143346.	34.078	6.171	411737.	0.
SM	179506976.	-259987776.	4383085.	5596.441	2925.244	172674080.	-247111536.
AV	241273.	-349446.	5891.	7.522	3.932	232089.	-332139.
MONTHLY SUMMARY (SEP)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	446936.	0.	203927.	26.774	6.171	415660.	0.
SM	177618176.	-257760912.	13365006.	2808.935	3023.986	177086784.	-255452880.
AV	246692.	-358001.	18563.	3.901	4.200	245954.	-354796.
MONTHLY SUMMARY (OCT)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	445175.	0.	521428.	11.107	6.171	416762.	0.
SM	193751840.	-273905760.	45217996.	372.937	3165.929	189176224.	-267443504.
AV	260419.	-368153.	60777.	0.501	4.255	254269.	-359467.
MONTHLY SUMMARY (NOV)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	453756.	0.	643961.	0.000	6.171	424795.	0.
SM	191218624.	-254977312.	85442304.	0.000	2851.187	180125952.	-240855536.
AV	265581.	-354135.	118670.	0.000	3.960	250175.	-334522.
MONTHLY SUMMARY (DEC)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	482461.	0.	674265.	0.000	6.171	451668.	0.
SM	212265936.	-271122176.	150906624.	0.000	3036.329	200879696.	-256495520.
AV	285304.	-364412.	202831.	0.000	4.081	270000.	-344752.
YEARLY SUMMARY							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	503066.	0.	707131.	36.032	6.171	470959.	0.
SM	2286051328.	-3134884864.	824687424.	20003.379	35584.301	2197676032.	-3006002688.
AV	260965.	-357864.	94142.	2.283	4.052	250876.	-343151.



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 6/12/1996 9:34:28 PDL RUN 1  
BUILDING 2790 - NEW  
WEATHER FILE- BALTIMORE, MD

MONTH	S I T E E N E R G Y												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	0.0	0.0	337.8 98.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	662.5	1000.3	1676.9
FEB	0.0	0.0	300.9 88.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	542.6	843.5	1446.1
MAR	0.0	0.0	345.3 101.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	355.3	700.6	1392.3
APR	0.0	0.0	336.2 98.5E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	147.3	483.5	1156.9
MAY	0.0	0.0	400.3 117.2E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	101.8	502.1	1304.0
JUN	0.0	0.0	492.5 144.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	23.2	515.7	1502.3
JUL	0.0	0.0	517.6 151.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	15.1	532.7	1569.4
AUG	0.0	0.0	537.6 157.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	20.4	558.0	1634.8
SEP	0.0	0.0	442.6 129.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	40.7	483.3	1369.7
OCT	0.0	0.0	369.0 108.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	127.1	496.1	1235.1
NOV	0.0	0.0	317.9 93.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	271.9	589.8	1226.4
DEC	0.0	0.0	337.8 98.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	561.4	899.2	1575.3
=====	0.0	0.0	4735.4 1386.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	2869.3	7604.7	17089.8

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:34:28 PDL RUN 1  
BUILDING 2790 - NEW  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	FUEL-OIL	NATURAL-GAS
	TOTAL (MBTU)	337.795	0.000	662.525
JAN	PEAK (KBTU)	878.230	0.000	4368.156
	DY/HR	10/ 9	31/24	31/ 7
	TOTAL (MBTU)	300.880	0.000	542.505
FEB	PEAK (KBTU)	878.555	0.000	4155.767
	DY/HR	28/ 9	28/24	14/ 7
	TOTAL (MBTU)	345.332	0.000	355.264
MAR	PEAK (KBTU)	887.321	0.000	3681.530
	DY/HR	29/19	31/24	7/ 7
	TOTAL (MBTU)	336.188	0.000	147.289
APR	PEAK (KBTU)	1009.056	0.000	2669.930
	DY/HR	19/19	30/ 1	9/ 7
	TOTAL (MBTU)	400.334	0.000	101.803
MAY	PEAK (KBTU)	1420.595	0.000	1981.036
	DY/HR	21/17	31/ 1	10/ 7
	TOTAL (MBTU)	492.550	0.000	23.172
JUN	PEAK (KBTU)	1714.696	0.000	564.622
	DY/HR	28/17	30/ 1	22/ 7
	TOTAL (MBTU)	517.576	0.000	15.113
JUL	PEAK (KBTU)	1719.500	0.000	182.506
	DY/HR	25/14	31/ 1	21/ 7
	TOTAL (MBTU)	537.578	0.000	20.433
AUG	PEAK (KBTU)	1720.256	0.000	596.129
	DY/HR	18/17	31/ 1	22/ 7
	TOTAL (MBTU)	442.564	0.000	40.716
SEP	PEAK (KBTU)	1649.323	0.000	1009.333
	DY/HR	1/17	30/ 1	30/ 7
	TOTAL (MBTU)	368.987	0.000	127.071
OCT	PEAK (KBTU)	1305.231	0.000	2261.801
	DY/HR	13/17	31/24	24/ 7
	TOTAL (MBTU)	317.351	0.000	271.916
NOV	PEAK (KBTU)	1047.528	0.000	3377.637
	DY/HR	2/19	30/24	25/ 7
	TOTAL (MBTU)	337.737	0.000	561.418
DEC	PEAK (KBTU)	878.193	0.000	3700.395
	DY/HR	31/ 9	31/24	12/ 7
	ONE YEAR	4735.423	0.000	2869.325
	USE/PEAK	1720.256	0.000	4368.156

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:34:23 PDL RUN 1  
BUILDING 2790 - NEW  
WEATHER FILE- BALTIMORE, MD

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	4735.4	100.0
	=====	=====
LOAD SATISFIED	4735.4	100.0
TOTAL LOAD ON PLANT	4735.4	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/12/1996 9:34:28 PDL RUN 1  
BUILDING 2790 - NEW  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
ELECTRICAL LOADS	4735.4	4735.4	0.000	0.000	0



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 6/12/1996 9:34:28 PDL RUN 1  
BUILDING 2790 - NEW  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.000	0.000	0 0 0	0.000 0				

ENTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D	6/12/1996	9:34:28	PDL RUN 1
READING, PA 19603	FT. GEORGE G. MEADE	BUILDING 2790 - NEW			
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD			

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E Q U I P M E N T            T O T A L S

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HW-BOILER		0.1	
NOMINAL SIZE (MBTU)			0.000
NUMBER INSTALLED			1
FIRST COST (K\$)	0.0		0.0
ANNUAL COST (K\$)	0.1		0.1
CYCLICAL COST (K\$)	0.0		0.0
-----TOTAL----- (K\$)			0.1
<hr/>			
EQUIPMENT TOTAL		0.1	

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/12/1996    9:34:28    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    BUILDING 2790 - NEW  
 REPORT- BEPS    ESTIMATED BUILDING ENERGY PERFORMANCE    WEATHER FILE- BALTIMORE, MD

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ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	0.00	0.00	2869.33
SPACE COOL	778.87	0.00	0.00
HVAC AUX	781.90	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	2778.61	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	396.18	0.00	0.00
	-----	-----	-----
TOTAL	4735.56	0.00	2869.33

TOTAL SITE ENERGY	7604.75 MBTU	97.0 KBTU/SQFT-YR GROSS-AREA	97.0 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	17089.81 MBTU	217.9 KBTU/SQFT-YR GROSS-AREA	217.9 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.8  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

BUILDING 2790  
W/SETBACK VENT, ECONO.  
FILE: F1M2790N

ENTECH ENGINEERING READING, PA 19603 SH-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 6/12/1996 BUILDING 2790 - NEW		9:56: 3 SDL RUN 1
PAGE 1- 1								
MMDDHH	AC-17	AC-17	AC-17	AC-17	AC-17	AC-18	AC-18	AC-18
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	HEATING GAS BTU/HR	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- (47)	---- (49)	---- (45)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)
MONTHLY SUMMARY (JAN)								
MM	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	2.096	2.165	157179.	274560.	0.	134933.	2.177	2.106
SM	176.633	1024.187	6624051.	73719360.	-86518744.	3620652.	142.161	994.173
AV	0.237	1.377	8903.	99085.	-116289.	4866.	0.191	1.336
MONTHLY SUMMARY (FEB)								
MM	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	1.898	2.165	144468.	216668.	0.	125844.	2.052	2.106
SM	88.303	922.418	5624511.	64615252.	-77921744.	3163818.	85.901	893.071
AV	0.231	1.373	8370.	96154.	-115955.	4708.	0.128	1.329
MONTHLY SUMMARY (MAR)								
MM	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	1.759	2.165	126532.	286477.	0.	97036.	3.343	2.106
SM	68.769	1011.195	2632770.	70233904.	-85421248.	1693159.	78.259	979.429
AV	0.092	1.359	3539.	94400.	-114814.	2276.	0.105	1.316
MONTHLY SUMMARY (APR)								
MM	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	5.625	2.165	51408.	246091.	0.	1600.	6.412	2.106
SM	219.248	974.385	1319538.	67592480.	-82311696.	1152000.	440.357	949.941
AV	0.204	1.353	1833.	93878.	-114322.	1600.	0.612	1.319
MONTHLY SUMMARY (MAY)								
MM	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	8.495	2.165	40820.	154357.	0.	29729.	8.531	2.106
SM	1707.159	1030.683	1550600.	62174492.	-87067472.	1270957.	1827.328	989.961
AV	2.295	1.385	2084.	83568.	-117026.	1708.	2.456	1.331
MONTHLY SUMMARY (JUN)								
MM	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	11.334	2.165	1600.	148962.	0.	1600.	11.118	2.106
SM	2648.586	974.385	1152000.	56274852.	-82311696.	1152000.	2698.377	947.835
AV	3.679	1.353	1600.	78160.	-114322.	1600.	3.748	1.316
MONTHLY SUMMARY (JUL)								
MM	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	11.760	2.165	1600.	156804.	0.	1600.	11.500	2.106
SM	2861.094	1006.864	1190400.	58579572.	-85055416.	1190400.	2874.969	979.429
AV	3.846	1.353	1600.	78736.	-114322.	1600.	3.864	1.316

	AC-17	AC-17	AC-17	AC-17	AC-17	AC-18	AC-18	AC-18
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	HEATING GAS BTU/HR	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(47)	----(49)	----(45)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	11.599	2.165	1600.	150954.	0.	1600.	11.420	2.106
SM	2928.888	1006.864	1190400.	58354624.	-85055416.	1190400.	2962.319	979.429
AV	3.937	1.353	1600.	78434.	-114322.	1600.	3.982	1.316
MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	10.560	2.165	1600.	152866.	0.	1600.	10.423	2.106
SM	2168.013	974.385	1152000.	57542008.	-82311696.	1152000.	2254.253	947.835
AV	3.011	1.353	1600.	79919.	-114322.	1600.	3.131	1.316
MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	7.072	2.165	37043.	194710.	0.	11533.	7.335	2.106
SM	1226.290	1019.856	1513510.	63487132.	-86152904.	1229509.	1378.546	979.429
AV	1.648	1.371	2034.	85332.	-115797.	1653.	1.853	1.316
MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	6.369	2.165	114228.	258514.	0.	69650.	6.758	2.106
SM	194.913	976.550	2121928.	68311856.	-82494608.	1359738.	229.084	952.047
AV	0.257	1.356	2947.	94878.	-114576.	1639.	0.318	1.322
MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	2.129	2.165	122978.	239410.	0.	92408.	2.139	2.106
SM	165.580	1022.021	4862054.	71698848.	-86335832.	2488035.	103.141	979.429
AV	0.223	1.374	6535.	96369.	-116043.	3344.	0.139	1.316
YEARLY SUMMARY								
MN	0.000	0.000	1600.	0.	-182915.	1600.	0.000	0.000
MX	11.760	2.165	157179.	286477.	0.	134933.	11.500	2.106
SM	14443.274	11943.793	30933762.	772584320.	-1008958400.	20662768.	15074.695	11572.011
AV	1.649	1.363	3531.	88195.	-115178.	2359.	1.721	1.321

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EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 6/12/1996  
BUILDING 2790 - NEW

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MMDDHH	AC-18	AC-18	AC-19	AC-19	AC-19	AC-19	AC-19	AC-21
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR
	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)
MONTHLY SUMMARY (JAN)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	234434.	0.	134933.	2.177	2.106	234434.	0.	157034.
SM	72072720.	-83983344.	3620652.	142.161	994.173	72072720.	-83983344.	6393482.
AV	96872.	-112881.	4866.	0.191	1.336	96872.	-112881.	8593.
MONTHLY SUMMARY (FEB)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	213274.	0.	125844.	2.052	2.106	213274.	0.	143450.
SM	63162108.	-75442680.	3163818.	85.901	893.071	63162108.	-75442680.	5397488.
AV	93991.	-112266.	4708.	0.128	1.329	93991.	-112266.	8032.
MONTHLY SUMMARY (MAR)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	282673.	0.	97036.	3.343	2.106	282673.	0.	123613.
SM	58696056.	-82737840.	1693159.	78.259	979.429	58696056.	-82737840.	2543106.
AV	92333.	-111207.	2276.	0.105	1.316	92333.	-111207.	3418.
MONTHLY SUMMARY (APR)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	206632.	0.	1600.	6.412	2.106	206632.	0.	50586.
SM	65825380.	-80246808.	1152000.	440.357	949.941	65825380.	-80246808.	1292136.
AV	91424.	-111454.	1600.	0.612	1.319	91424.	-111454.	1795.
MONTHLY SUMMARY (MAY)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	144384.	0.	29729.	8.531	2.106	144384.	0.	40504.
SM	59711464.	-83627488.	1270957.	1827.328	989.961	59711464.	-83627488.	1540544.
AV	80257.	-112403.	1708.	2.456	1.331	80257.	-112403.	2071.
MONTHLY SUMMARY (JUN)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	145427.	0.	1600.	11.118	2.106	145427.	0.	1600.
SM	54859972.	-80068880.	1152000.	2698.377	947.835	54859972.	-80068880.	1152000.
AV	76194.	-111207.	1600.	3.748	1.316	76194.	-111207.	1600.
MONTHLY SUMMARY (JUL)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	152902.	0.	1600.	11.500	2.106	152902.	0.	1600.
SM	57088628.	-82737840.	1190400.	2874.969	979.429	57088628.	-82737840.	1190400.
AV	76732.	-111207.	1600.	3.864	1.316	76732.	-111207.	1600.

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 BUILDING 2790 - NEW

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	AC-18	AC-18	AC-19	AC-19	AC-19	AC-19	AC-19	AC-21
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR
	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)
MONTHLY SUMMARY (AUG)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	147178.	0.	1600.	11.420	2.106	147178.	0.	1600.
SM	56885316.	-82737840.	1190400.	2962.319	979.429	56885316.	-82737840.	1190400.
AV	76459.	-111207.	1600.	3.982	1.316	76459.	-111207.	1600.
MONTHLY SUMMARY (SEP)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	149345.	0.	1600.	10.423	2.106	149345.	0.	1600.
SM	56079080.	-80068880.	1152000.	2254.253	947.835	56079080.	-80068880.	1152000.
AV	77888.	-111207.	1600.	3.131	1.316	77888.	-111207.	1600.
MONTHLY SUMMARY (OCT)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	176171.	0.	11583.	7.335	2.106	176171.	0.	31628.
SM	60914120.	-82737840.	1229509.	1378.546	979.429	60914120.	-82737840.	1452512.
AV	81874.	-111207.	1653.	1.853	1.316	81874.	-111207.	1952.
MONTHLY SUMMARY (NOV)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	253779.	0.	69650.	6.758	2.106	253779.	0.	110729.
SM	67071136.	-80424744.	1359788.	229.084	952.047	67071136.	-80424744.	2024805.
AV	93154.	-111701.	1899.	0.318	1.322	93154.	-111701.	2812.
MONTHLY SUMMARY (DEC)								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	236315.	0.	92408.	2.139	2.106	236315.	0.	120765.
SM	69705824.	-82737840.	2488085.	103.141	979.429	69705824.	-82737840.	4591810.
AV	93691.	-111207.	3344.	0.139	1.316	93691.	-111207.	6172.
YEARLY SUMMARY								
MN	0.	-177931.	1600.	0.000	0.000	0.	-177931.	1600.
MX	282673.	0.	134933.	11.500	2.106	282673.	0.	157034.
SM	752071808.	-977552064.	20662758.	15074.695	11572.011	752071808.	-977552064.	29920684.
AV	85853.	-111593.	2359.	1.721	1.321	85853.	-111593.	3416.

MMDDHH	AC-21	AC-21	AC-21	AC-21	AC-25	AC-25	AC-25	AC-25
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR
	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)
MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	2.141	2.189	277404.	0.	170814.	2.247	2.248	284358.
SM	175.660	1035.350	74486400.	-87461704.	8903244.	177.460	1070.000	76586912.
AV	0.236	1.392	100116.	-117556.	11967.	0.239	1.438	102939.
MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	1.932	2.189	219137.	0.	156535.	2.352	2.248	223482.
SM	37.999	928.094	64991588.	-78401200.	7656226.	137.619	973.341	67607144.
AV	0.131	1.381	96714.	-116668.	11393.	0.205	1.448	100606.
MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	1.863	2.189	289674.	0.	138463.	1.951	2.248	294807.
SM	71.935	1022.216	71005408.	-86352256.	3629351.	75.117	1054.265	72734056.
AV	0.097	1.374	95437.	-116065.	4878.	0.101	1.417	97761.
MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	5.825	2.189	248674.	0.	70491.	4.989	2.248	280069.
SM	231.983	985.005	68298616.	-83208816.	1575263.	140.182	1011.555	69908624.
AV	0.322	1.368	94859.	-115568.	2188.	0.195	1.405	97095.
MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	8.609	2.189	154225.	0.	45387.	8.616	2.248	164410.
SM	1727.490	1044.105	62944584.	-88201336.	1777205.	1650.275	1072.248	64598768.
AV	2.322	1.403	84603.	-118550.	2389.	2.218	1.441	86826.
MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	11.425	2.189	150534.	0.	1600.	11.592	2.248	154111.
SM	2669.679	985.005	56840048.	-83208816.	1152000.	2651.305	1011.555	58257688.
AV	3.708	1.368	78945.	-115568.	1600.	3.682	1.405	80913.
MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	11.861	2.189	158468.	0.	1600.	12.126	2.248	162290.
SM	2886.158	1017.838	59156840.	-85982440.	1190400.	2883.212	1045.274	60638464.
AV	3.879	1.368	79512.	-115568.	1600.	3.875	1.405	81503.



	AC-21	AC-21	AC-21	AC-21	AC-25	AC-25	AC-25	AC-25
	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR
	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	11.749	2.189	152547.	0.	1600.	11.936	2.248	156326.
SM	2968.604	1017.838	58933952.	-85982440.	1190400.	2947.051	1045.274	60406884.
AV	3.990	1.368	79212.	-115568.	1600.	3.961	1.405	81192.
MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	10.774	2.189	154557.	0.	6757.	10.881	2.248	158136.
SM	2220.284	985.005	58125848.	-83208816.	1157157.	2142.030	1011.555	59595664.
AV	3.084	1.368	80730.	-115568.	1607.	2.975	1.405	82772.
MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	7.311	2.189	196983.	0.	52906.	7.013	2.248	200976.
SM	1277.614	1028.783	63976212.	-86906976.	1763613.	1159.064	1063.257	66080412.
AV	1.717	1.383	85990.	-116810.	2370.	1.558	1.429	88818.
MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	6.525	2.189	261498.	0.	126363.	6.111	2.248	266917.
SM	188.822	987.194	69068984.	-83393728.	2879661.	199.231	1016.051	70522456.
AV	0.262	1.371	95929.	-115825.	4000.	0.277	1.411	97948.
MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	2.070	2.189	242175.	0.	132756.	2.179	2.248	246506.
SM	159.467	1033.161	72542848.	-87276800.	6684050.	187.273	1076.744	74682560.
AV	0.214	1.389	97504.	-117308.	8984.	0.252	1.447	100380.
YEARLY SUMMARY								
MN	0.000	0.000	0.	-184909.	1600.	0.000	0.000	0.
MX	11.861	2.189	289674.	0.	170814.	12.126	2.248	294807.
SM	14665.695	12069.594	780371328.	-1019585472.	39558568.	14349.818	12451.119	801619584.
AV	1.674	1.378	89083.	-116391.	4516.	1.638	1.421	91509.

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MMDDHH	AC-25	AC-22	AC-22	AC-22	AC-22	AC-22	AC-23	AC-23
	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW
	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)
MONTHLY SUMMARY (JAN)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	150721.	2.139	2.183	276737.	0.	150721.	2.139
SM	-90388872.	5588395.	178.730	1032.559	74345512.	-87226000.	5588395.	178.730
AV	-121490.	7511.	0.240	1.388	99927.	-117239.	7511.	0.240
MONTHLY SUMMARY (FEB)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	138843.	2.093	2.183	219090.	0.	138843.	2.093
SM	-82223496.	4738895.	84.891	925.592	64960048.	-78189904.	4738895.	84.891
AV	-122356.	7052.	0.126	1.377	96667.	-116354.	7052.	0.126
MONTHLY SUMMARY (MAR)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	118476.	1.947	2.183	289733.	0.	118476.	1.947
SM	-89059632.	2280415.	59.810	1017.278	70859744.	-85935128.	2280415.	59.810
AV	-119704.	3065.	0.080	1.367	95242.	-115504.	3065.	0.080
MONTHLY SUMMARY (APR)								
MN	-189893.	1600.	0.000	0.000	0.	-134410.	1600.	0.000
MX	0.	40657.	6.028	2.183	210895.	0.	40657.	6.028
SM	-85451672.	1242085.	285.096	982.350	68071864.	-82984568.	1242085.	285.096
AV	-118683.	1725.	0.396	1.364	94544.	-115256.	1725.	0.396
MONTHLY SUMMARY (MAY)								
MN	-189893.	1600.	0.000	0.000	0.	-134410.	1600.	0.000
MX	0.	34180.	8.650	2.133	152138.	0.	34180.	8.650
SM	-90578784.	1422999.	1764.060	1032.559	62193708.	-87226000.	1422999.	1764.060
AV	-121746.	1913.	2.371	1.388	83594.	-117239.	1913.	2.371
MONTHLY SUMMARY (JUN)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	1600.	11.367	2.183	150189.	0.	1600.	11.367
SM	-35451672.	1152000.	2696.959	982.350	56698716.	-82984568.	1152000.	2696.959
AV	-118683.	1600.	3.746	1.364	78748.	-115256.	1600.	3.746
MONTHLY SUMMARY (JUL)								
MN	-189893.	1600.	0.000	0.000	0.	-134410.	1600.	0.000
MX	0.	1600.	11.846	2.183	157983.	0.	1600.	11.846
SM	-88300064.	1190400.	2894.006	1015.095	59005704.	-85750720.	1190400.	2894.006
AV	-118683.	1600.	3.890	1.364	79309.	-115256.	1600.	3.890

	AC-25	AC-22	AC-22	AC-22	AC-22	AC-22	AC-23	AC-23
	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW
	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)
MONTHLY SUMMARY (AUG)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	1600.	11.748	2.183	152163.	0.	1600.	11.748
SM	-88300064.	1190400.	2977.198	1015.095	58791668.	-85750720.	1190400.	2977.198
AV	-118683.	1600.	4.002	1.364	79021.	-115256.	1600.	4.002
MONTHLY SUMMARY (SEP)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	1600.	10.740	2.183	154202.	0.	1600.	10.740
SM	-85451672.	1152000.	2222.083	982.350	57977984.	-82984568.	1152000.	2222.083
AV	-118683.	1600.	3.086	1.364	80525.	-115256.	1600.	3.086
MONTHLY SUMMARY (OCT)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	27942.	7.264	2.183	196787.	0.	27942.	7.264
SM	-89819200.	1394002.	1293.530	1023.827	63662920.	-86488360.	1394002.	1293.530
AV	-120725.	1874.	1.739	1.376	85568.	-116248.	1874.	1.739
MONTHLY SUMMARY (NOV)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	101586.	6.490	2.183	261083.	0.	101586.	6.490
SM	-85831456.	1786585.	186.036	986.716	69145456.	-83353384.	1786585.	186.036
AV	-119210.	2481.	0.258	1.370	96035.	-115769.	2481.	0.258
MONTHLY SUMMARY (DEC)								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	117010.	2.167	2.183	242130.	0.	117010.	2.167
SM	-90958552.	3926879.	134.680	1026.010	72267880.	-86672768.	3926879.	134.680
AV	-122256.	5278.	0.181	1.379	97134.	-116496.	5278.	0.181
YEARLY SUMMARY								
MN	-189893.	1600.	0.000	0.000	0.	-184410.	1600.	0.000
MX	0.	150721.	11.846	2.183	289733.	0.	150721.	11.846
SM	-1051815104.	27065052.	14777.079	12021.779	777981248.	-1015546752.	27065052.	14777.079
AV	-120070.	3090.	1.687	1.372	88811.	-115930.	3090.	1.687

MMDDHH	AC-23	AC-23	AC-23	AC-24	AC-24	AC-24	AC-24	AC-24
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (JAN)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	276737.	0.	170697.	2.308	2.266	286494.	0.
SM	1032.559	74345512.	-87226000.	8625358.	175.058	1078.426	77260456.	-91100576.
AV	1.388	99927.	-117239.	11593.	0.235	1.449	103845.	-122447.
MONTHLY SUMMARY (FEB)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	219090.	0.	155532.	2.376	2.266	225357.	0.
SM	925.592	64960048.	-78189904.	7374066.	119.454	981.005	68232232.	-82870896.
AV	1.377	96667.	-116354.	10973.	0.178	1.460	101536.	-123320.
MONTHLY SUMMARY (MAR)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	289733.	0.	136482.	2.052	2.266	297191.	0.
SM	1017.278	70859744.	-85935128.	3477973.	75.721	1062.567	73297512.	-89760856.
AV	1.367	95242.	-115504.	4675.	0.102	1.428	98518.	-120646.
MONTHLY SUMMARY (APR)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	210895.	0.	69869.	5.214	2.266	282335.	0.
SM	982.350	68071864.	-82984568.	1541378.	148.156	1019.520	70434776.	-86124488.
AV	1.364	94544.	-115256.	2141.	0.206	1.416	97826.	-119617.
MONTHLY SUMMARY (MAY)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	152138.	0.	45074.	8.728	2.266	165644.	0.
SM	1032.559	62193708.	-87226000.	1764776.	1668.858	1080.691	65067960.	-91291960.
AV	1.388	83594.	-117239.	2372.	2.243	1.453	87457.	-122704.
MONTHLY SUMMARY (JUN)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	150189.	0.	1600.	11.573	2.266	155299.	0.
SM	982.350	56698716.	-82984568.	1152000.	2670.170	1019.520	58684568.	-86124488.
AV	1.364	78748.	-115256.	1600.	3.709	1.416	81506.	-119617.
MONTHLY SUMMARY (JUL)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	157983.	0.	1600.	12.206	2.266	163549.	0.
SM	1015.095	59005704.	-85750720.	1190400.	2905.725	1053.504	61074624.	-88995304.
AV	1.364	79309.	-115256.	1600.	3.906	1.416	82090.	-119617.

	AC-23	AC-23	AC-23	AC-24	AC-24	AC-24	AC-24	AC-24
	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	152163.	0.	1600.	12.075	2.266	157529.	0.
SM	1015.095	58791668.	-85750720.	1190400.	2985.038	1053.504	60838220.	-88995304.
AV	1.364	79021.	-115256.	1600.	4.012	1.416	81772.	-119617.
MONTHLY SUMMARY (SEP)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	154202.	0.	1600.	11.090	2.266	159429.	0.
SM	982.350	57977984.	-82984568.	1152000.	2192.289	1019.520	60027840.	-86124488.
AV	1.364	80525.	-115256.	1600.	3.045	1.416	83372.	-119617.
MONTHLY SUMMARY (OCT)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	196787.	0.	47251.	7.248	2.266	202617.	0.
SM	1023.827	63662920.	-86488360.	1679405.	1201.376	1069.363	66433228.	-90335016.
AV	1.376	85568.	-116248.	2257.	1.615	1.437	89292.	-121418.
MONTHLY SUMMARY (NOV)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	261083.	0.	128633.	6.263	2.266	269216.	0.
SM	986.716	69145456.	-83353384.	2757351.	191.238	1024.051	71183208.	-86507264.
AV	1.370	96035.	-115769.	3330.	0.266	1.422	98866.	-120149.
MONTHLY SUMMARY (DEC)								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	242130.	0.	130942.	2.327	2.266	248631.	0.
SM	1026.010	72267880.	-86672768.	6426219.	195.315	1080.691	74979512.	-91291952.
AV	1.379	97134.	-116496.	8637.	0.263	1.453	100779.	-122704.
YEARLY SUMMARY								
MN	0.000	0.	-184410.	1600.	0.000	0.000	0.	-191388.
MX	2.183	289733.	0.	170697.	12.206	2.266	297191.	0.
SM	12021.779	777981248.	-1015546752.	38331324.	14528.399	12542.363	807514176.	-1059523624.
AV	1.372	88811.	-115930.	4376.	1.658	1.432	92182.	-120950.

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MMDDHH	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)					
MN	1600.	0.000	0.000	0.	-379785.
MX	436732.	1.045	4.496	346317.	0.
SM	64251544.	4.501	2198.446	150119616.	-185714960.
AV	86360.	0.006	2.955	201774.	-249617.
MONTHLY SUMMARY (FEB)					
MN	1600.	0.000	0.000	0.	-379785.
MX	438604.	2.316	4.496	346317.	0.
SM	55574700.	10.408	2000.631	133941376.	-169004416.
AV	82700.	0.015	2.977	199318.	-251495.
MONTHLY SUMMARY (MAR)					
MN	1600.	0.000	0.000	0.	-379785.
MX	395946.	2.357	4.496	347182.	0.
SM	34949972.	59.040	2117.522	135914672.	-178878832.
AV	46976.	0.079	2.846	182681.	-240429.
MONTHLY SUMMARY (APR)					
MN	1600.	0.000	0.000	0.	-379785.
MX	289603.	2.921	4.496	333110.	0.
SM	11933250.	88.211	2023.110	125420944.	-170903344.
AV	16574.	0.123	2.810	174196.	-237366.
MONTHLY SUMMARY (MAY)					
MN	1600.	0.000	0.000	0.	-379785.
MX	189603.	14.305	4.496	302088.	0.
SM	8145257.	1858.351	2265.883	134384704.	-191411776.
AV	10948.	2.498	3.046	180625.	-257274.
MONTHLY SUMMARY (JUN)					
MN	1600.	0.000	0.000	0.	-379785.
MX	57432.	23.105	4.496	300162.	0.
SM	1515244.	4022.190	2041.093	116508064.	-172422480.
AV	2105.	5.586	2.335	161817.	-239476.
MONTHLY SUMMARY (JUL)					
MN	1600.	0.000	0.000	0.	-379785.
MX	1600.	24.387	4.496	316696.	0.
SM	1190400.	4743.045	2090.547	120301488.	-176600128.
AV	1600.	6.375	2.810	161696.	-237366.

	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT	AC_FRONT
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (AUG)					
MN	1600.	0.000	0.000	0.	-379785.
MX	78531.	24.107	4.496	304979.	0.
SM	1799591.	4635.455	2104.034	120405184.	-177739472.
AV	2419.	6.230	2.828	161835.	-238897.
MONTHLY SUMMARY (SEP)					
MN	1600.	0.000	0.000	0.	-379785.
MX	82131.	19.235	4.496	312346.	0.
SM	3104924.	2864.957	2099.539	121805296.	-177359680.
AV	4312.	3.979	2.916	169174.	-246333.
MONTHLY SUMMARY (OCT)					
MN	1600.	0.000	0.000	0.	-379785.
MX	241472.	10.659	4.496	306464.	0.
SM	11455242.	855.135	2220.925	134430672.	-187613920.
AV	15397.	1.149	2.985	180686.	-252159.
MONTHLY SUMMARY (NOV)					
MN	1600.	0.000	0.000	0.	-379785.
MX	408728.	2.694	4.496	321446.	0.
SM	27008492.	48.874	2059.077	132267288.	-173941600.
AV	37512.	0.068	2.860	183705.	-241586.
MONTHLY SUMMARY (DEC)					
MN	1600.	0.000	0.000	0.	-379785.
MX	391747.	1.882	4.496	332132.	0.
SM	56572384.	6.856	2202.942	147175408.	-186094736.
AV	76038.	0.009	2.961	197816.	-250127.
YEARLY SUMMARY					
MN	1600.	0.000	0.000	0.	-379785.
MX	433604.	24.387	4.496	347182.	0.
SM	277500992.	19197.025	25423.750	1572674816.	-2147685375.
AV	31678.	2.191	2.902	179529.	-245170.

MMDDHH	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC-1_2	AC-1_2	AC-1_2
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	----(45)	----(47)	----(49)	----(70)	----(78)	----(45)	----(47)	----(49)
MONTHLY SUMMARY (JAN)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	517776.	5.532	6.171	546417.	0.	640399.	3.071	6.590
SM	47504840.	207.400	3017.815	234180016.	-330240640.	82377688.	23.554	3202.886
AV	63851.	0.279	4.056	314758.	-443872.	110723.	0.032	4.305
MONTHLY SUMMARY (FEB)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	483352.	4.844	6.171	540233.	0.	634972.	3.089	6.590
SM	39730540.	208.324	2746.273	208965952.	-300525728.	66550208.	31.020	2906.323
AV	59123.	0.310	4.087	310961.	-447211.	99033.	0.046	4.325
MONTHLY SUMMARY (MAR)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	406607.	7.105	6.171	498977.	0.	574316.	3.452	6.590
SM	21550248.	513.649	2912.902	212196096.	-318759872.	39431388.	108.473	3097.441
AV	28965.	0.690	3.915	285210.	-428441.	52999.	0.146	4.163
MONTHLY SUMMARY (APR)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	286899.	6.740	6.171	536677.	0.	381549.	3.999	6.590
SM	6573587.	426.426	2777.131	196426928.	-303902400.	13455364.	121.247	2965.635
AV	9269.	0.592	3.857	272815.	-422087.	13690.	0.168	4.119
MONTHLY SUMMARY (MAY)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	188994.	21.025	6.171	471238.	0.	246408.	21.306	6.590
SM	5418397.	3444.591	3030.158	203324016.	-331591296.	9846311.	2970.200	3295.150
AV	7283.	4.630	4.073	273285.	-445687.	13234.	3.992	4.429
MONTHLY SUMMARY (JUN)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	18838.	31.594	6.171	471593.	0.	30738.	32.726	6.590
SM	1169239.	6183.779	2777.131	178135760.	-303902400.	1489373.	6010.972	2978.816
AV	1624.	8.589	3.857	247411.	-422087.	2069.	3.349	4.137
MONTHLY SUMMARY (JUL)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	1600.	33.625	6.171	497134.	0.	1600.	34.611	6.590
SM	1190400.	6964.404	2869.702	185331184.	-314032480.	1190400.	5924.862	3064.490
AV	1600.	9.361	3.857	249101.	-422087.	1600.	9.308	4.119



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BUILDING 2790 - NEW

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	AC_3_8	AC_3_8	AC_3_8	AC_3_8	AC_3_3	AC-1_2	AC-1_2	AC-1_2
	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW
	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	71761.	32.976	6.171	477912.	0.	109352.	32.716	6.590
SM	1544665.	6888.358	2875.873	185021424.	-314707840.	1903601.	6872.270	3077.670
AV	2076.	9.259	3.865	248685.	-422994.	2559.	9.237	4.137
MONTHLY SUMMARY (SEP)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	78355.	27.201	6.171	484060.	0.	118784.	28.875	6.590
SM	1966173.	4667.460	2826.502	185062496.	-309305088.	3601860.	4420.860	3051.309
AV	2731.	6.483	3.926	257031.	-429590.	5003.	6.140	4.238
MONTHLY SUMMARY (OCT)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	221059.	16.363	6.171	478065.	0.	329072.	15.151	6.590
SM	7201174.	1916.218	3005.472	205952448.	-328889952.	13305519.	1381.286	3242.428
AV	9679.	2.576	4.040	276818.	-442056.	17884.	1.857	4.358
MONTHLY SUMMARY (NOV)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	415911.	9.449	6.171	516783.	0.	548780.	3.414	6.590
SM	16102872.	417.211	2826.502	206405344.	-309305088.	32122748.	47.155	3018.358
AV	22365.	0.579	3.926	286674.	-429590.	44615.	0.065	4.192
MONTHLY SUMMARY (DEC)								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	405679.	5.960	6.171	518105.	0.	575705.	3.295	6.590
SM	37766448.	142.938	3030.158	230077184.	-331531296.	70185288.	12.796	3209.476
AV	50761.	0.192	4.073	309244.	-445687.	94335.	0.017	4.314
YEARLY SUMMARY								
MN	1600.	0.000	0.000	0.	-675339.	1600.	0.000	0.000
MX	517776.	33.625	6.171	546417.	0.	640399.	34.611	6.590
SM	137818576.	31980.758	34695.617	2431078912.	-3796753920.	335461472.	28924.691	37109.984
AV	21440.	3.651	3.961	277520.	-433419.	38295.	3.302	4.236

MMDDHH	AC_1_2	AC_1_2	AC_EXP	AC_EXP	AC_EXP	AC_EXP	AC_EXP
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- (70)	---- (78)	---- (45)	---- (47)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	573499.	0.	612508.	0.000	6.171	470959.	0.
SM	217428544.	-270565440.	124461520.	0.000	3023.987	204536176.	-255452880.
AV	292243.	-363663.	167287.	0.000	4.064	274914.	-343351.
MONTHLY SUMMARY (FEB)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	503066.	0.	613932.	0.024	6.171	470959.	0.
SM	193267504.	-245513088.	108932480.	0.024	2777.131	184123104.	-234599552.
AV	287600.	-365347.	162102.	0.000	4.133	273993.	-349106.
MONTHLY SUMMARY (MAR)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	514398.	0.	608037.	1.075	6.171	434992.	0.
SM	197890128.	-261657920.	80811968.	3.548	2919.073	185365904.	-246590192.
AV	265981.	-351691.	108618.	0.005	3.923	249148.	-331438.
MONTHLY SUMMARY (APR)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	558289.	0.	480296.	2.474	6.171	424795.	0.
SM	184318768.	-250523552.	37039580.	41.220	2777.131	169103264.	-234599552.
AV	255998.	-347949.	51444.	0.057	3.857	234866.	-325833.
MONTHLY SUMMARY (MAY)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	503489.	0.	306308.	13.085	6.171	410811.	0.
SM	193136576.	-278359520.	25395696.	1245.583	3320.214	195701264.	-280476832.
AV	259659.	-374139.	34134.	1.674	4.463	263039.	-376985.
MONTHLY SUMMARY (JUN)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	435032.	0.	125830.	26.163	6.171	405617.	0.
SM	166743600.	-251636992.	4707136.	3737.143	2894.387	164542016.	-244504896.
AV	231588.	-349496.	6538.	5.190	4.020	228531.	-339590.
MONTHLY SUMMARY (JUL)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	460111.	0.	38616.	30.544	6.171	434171.	0.
SM	172809248.	-256874336.	1433384.	4691.854	2869.702	164144256.	-242419536.
AV	232271.	-347949.	1927.	6.306	3.857	220624.	-325833.

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	AC-1_2	AC-1_2	AC_EXP	AC_EXP	AC_EXP	AC_EXP	AC_EXP
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	HEATING GAS BTU/HR	COOLING ELECTRIC KW	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	----(70)	----(78)	----(45)	----(47)	----(49)	----(70)	----(78)
MONTHLY SUMMARY (AUG)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	442427.	0.	137856.	27.313	6.171	411484.	0.
SM	172575664.	-259987776.	3505359.	4543.886	2925.244	166474976.	-247111536.
AV	231957.	-349446.	4712.	6.107	3.932	223757.	-332139.
MONTHLY SUMMARY (SEP)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	489803.	0.	161715.	19.805	6.171	415466.	0.
SM	174711323.	-257760912.	9453492.	2478.885	3030.158	174279600.	-255974208.
AV	242655.	-358001.	13130.	3.443	4.209	242055.	-355520.
MONTHLY SUMMARY (OCT)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	468083.	0.	431449.	9.508	6.171	416762.	0.
SM	195301088.	-273905760.	31439546.	420.231	3165.929	189220096.	-267443504.
AV	262501.	-368153.	42257.	0.565	4.255	254328.	-359467.
MONTHLY SUMMARY (NOV)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	507686.	0.	615245.	0.259	6.171	424795.	0.
SM	193981920.	-254977312.	61184660.	0.652	2851.187	180299976.	-240855536.
AV	269419.	-354135.	84979.	0.001	3.960	250415.	-334522.
MONTHLY SUMMARY (DEC)							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	512330.	0.	606315.	0.000	6.171	451668.	0.
SM	213095584.	-271122176.	111491816.	0.000	3036.329	200898320.	-256495520.
AV	286419.	-364412.	149855.	0.000	4.081	270025.	-344752.
YEARLY SUMMARY							
MN	0.	-556719.	1600.	0.000	0.000	0.	-521332.
MX	573499.	0.	615245.	30.544	6.171	470959.	0.
SM	2275309824.	-3134884864.	599856640.	17163.027	35590.473	2178638000.	-3006523904.
AV	259739.	-357864.	58477.	1.959	4.063	248709.	-343211.



S I T E E N E R G Y													SOURCE
2	3	4	5	6	7	8	9	10	11	12	13	14	
MONTH	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	0.0	0.0	343.2 100.5E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	367.6	710.8	1398.2
FEB	0.0	0.0	304.4 89.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	312.6	617.0	1226.7
MAR	0.0	0.0	349.5 102.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	197.0	546.5	1246.7
APR	0.0	0.0	342.1 100.2E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	79.6	421.8	1107.1
MAY	0.0	0.0	410.3 120.2E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	60.8	471.1	1292.9
JUN	0.0	0.0	474.1 138.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	18.1	492.2	1442.0
JUL	0.0	0.0	484.6 141.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	14.5	499.1	1469.8
AUG	0.0	0.0	504.2 147.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	18.3	522.5	1532.5
SEP	0.0	0.0	434.3 127.2E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	27.3	461.7	1331.6
OCT	0.0	0.0	379.4 111.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	75.1	454.5	1214.5
NOV	0.0	0.0	321.9 94.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	152.5	474.4	1119.2
DEC	0.0	0.0	342.4 100.3E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	311.4	653.8	1339.6
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	0.0	0.0	4690.6 1373.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	1634.8	6325.4	15720.6

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

MO	UTILITY-	ELECTRICITY	FUEL-OIL	NATURAL-GAS
	TOTAL (MBTU)	343.195	0.000	367.560
JAN	PEAK (KBTU)	929.193	0.000	3430.472
	DY/HR	14/19	31/24	31/ 7
	TOTAL (MBTU)	304.392	0.000	312.646
FEB	PEAK (KBTU)	922.058	0.000	3252.151
	DY/HR	2/19	28/24	14/ 7
	TOTAL (MBTU)	349.545	0.000	196.974
MAR	PEAK (KBTU)	916.034	0.000	2941.520
	DY/HR	18/15	31/24	7/ 7
	TOTAL (MBTU)	342.139	0.000	79.620
APR	PEAK (KBTU)	1036.890	0.000	1765.213
	DY/HR	19/19	30/ 1	9/ 7
	TOTAL (MBTU)	410.287	0.000	60.326
MAY	PEAK (KBTU)	1349.570	0.000	1096.534
	DY/HR	21/18	31/ 1	10/ 5
	TOTAL (MBTU)	474.145	0.000	18.097
JUN	PEAK (KBTU)	1572.944	0.000	232.568
	DY/HR	27/17	30/ 1	1/ 5
	TOTAL (MBTU)	484.605	0.000	14.528
JUL	PEAK (KBTU)	1619.108	0.000	56.216
	DY/HR	25/17	31/ 1	21/ 7
	TOTAL (MBTU)	504.222	0.000	18.276
AUG	PEAK (KBTU)	1597.791	0.000	291.764
	DY/HR	18/17	31/ 1	21/ 7
	TOTAL (MBTU)	434.318	0.000	27.348
SEP	PEAK (KBTU)	1495.148	0.000	383.393
	DY/HR	1/17	30/ 1	21/ 6
	TOTAL (MBTU)	379.436	0.000	75.058
OCT	PEAK (KBTU)	1251.967	0.000	1463.531
	DY/HR	13/17	31/24	24/ 7
	TOTAL (MBTU)	321.900	0.000	152.495
NOV	PEAK (KBTU)	1087.008	0.000	2811.089
	DY/HR	2/19	30/24	25/ 7
	TOTAL (MBTU)	342.381	0.000	311.410
DEC	PEAK (KBTU)	927.395	0.000	2868.668
	DY/HR	22/19	31/24	22/ 7
	ONE YEAR	4690.565	0.000	1634.338
	USE/PEAK	1619.108	0.000	3430.472

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/12/1996    9:56:3    PDL RUN 1  
READING, PA    19603    FT. GEORGE G. MEADE    BUILDING 2790 - NEW  
REPORT- PS-D PLANT LOADS SATISFIED    WEATHER FILE- BALTIMORE, MD

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ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	4690.6	100.0
	=====	=====
LOAD SATISFIED	4690.6	100.0
TOTAL LOAD ON PLANT	4690.5	

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/12/1996    9:56: 3    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    BUILDING 2790 - NEW  
 REPORT- PS-D PLANT LOADS SATISFIED    WEATHER FILE- BALTIMORE, MD  
 -----(CONTINUED)-----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
ELECTRICAL LOADS	4690.5	4690.6	0.000	0.000	0



ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/12/1996    9:56: 3    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    BUILDING 2790 - NEW  
 REPORT- PS-H    EQUIPMENT USE STATISTICS    WEATHER FILE- BALTIMORE, MD

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EQUIPMENT	AVG	MAX	MON		SIZE		SIZE		SIZE		SIZE		SIZE	
	OPER	LOAD	DAY	HR	OPER	HR	OPER	HR	OPER	HR	OPER	HR	OPER	HR
	RATIO	(MBTU)			(MBTU)		(MBTU)		(MBTU)		(MBTU)		(MBTU)	
HW-BOILER	0.000	0.000	0	0	0	0.000	0							

ENTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D	6/12/1996	9:56: 3	PDL RUN 1
READING, PA 19603	FT. GEORGE G. MEADE	BUILDING 2790 - NEW			
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD			

E Q U I P M E N T T O T A L S

HW-BOILER	0.1		
NOMINAL SIZE (MBTU)		0.000	
NUMBER INSTALLED		1	
FIRST COST (KS)	0.0	0.0	
ANNUAL COST (KS)	0.1	0.1	
CYCLICAL COST (KS)	0.0	0.0	
-----TOTAL---(KS)		0.1	
EQUIPMENT TOTAL		0.1	

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/12/1996    9:56: 3    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    BUILDING 2790 - NEW  
 REPORT- BEPS    ESTIMATED BUILDING ENERGY PERFORMANCE    WEATHER FILE- BALTIMORE, MD

---

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	0.00	0.00	1634.84
SPACE COOL	733.96	0.00	0.00
HVAC AUX	781.96	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	2778.64	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	396.18	0.00	0.00
	-----	-----	-----
TOTAL	4690.75	0.00	1634.84

TOTAL SITE ENERGY    6325.40 MBTU    80.7 KBTU/SQFT-YR GROSS-AREA    80.7 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY    15720.62 MBTU    200.5 KBTU/SQFT-YR GROSS-AREA    200.5 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.3  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE    ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND.    ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

# FT. MEADE, MARYLAND

**Building:** 2793

**Square feet** 26,246

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Air Space	1.10
Plywood	0.93
3 1/2" Batt Insulation	11.00
Drywall	0.56
Inside Surface	0.68
Total R-Value	14.88
Total U-Value	0.07

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Plywood	0.93
Air Space	1.10
6" Batt Insulation	19.00
Gyp Board	0.56
Inside Surface	0.61
Total R-Value	22.81
Total U-Value	0.04

Calculated Total Area	
No. of Floors	2
Avg. Floor to Floor Height	9
No. of Basement Levels	
Gross Floor Area	26246
Roof Area	12375
Estimated Infiltration (cfm)	500
Gross Wall Area	10080
Door Area	63
Gross Window Area	744
Other	
Net Wall Area	9273

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	0.60
Door Type 2	
Door Type 3	

# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 2793

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	PTAC							
COOLING:								
Type of Cooling								
Air Side								
Location in Building	Each Room							
Area Sq. Feet								
Supply CFM								
Supply Fan HP								
O.A. CFM or %								
Return CFM								
Return Fan HP								
Chiller Tonnage	0.6							
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP								
HEATING:								
Type of Heating								
Source								
MBTUH	6300							
Hot Water Pump HP								
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling		Type of Heating			Heating Source			
(1) Air Cooled DX	(4) Water Cooled Chiller	(1) Boiler Hot Water			(4) Furnace			
(2) Water Cooled DX	(5) Central Plant Supplied	(2) Boiler Steam			(3) Steam to Hot Water Converter			
(3) Air Cooled Chiller	(6) Other	(3) Steam to Hot Water Converter			Heating Source			
Air Side		(1) Natural Gas			(4) Oil			
(1) Single Zone	(4) VAV w/ Reheat	(2) Central Plant Steam			(5) Electric			
(2) Multi-Zone	(5) Constant Volume Reheat	(3) Central Plant Hot Water						
(3) VAV	(6) Heating and Ventilating							

# FT. MEADE, MARYLAND

**Building:** 2812

**Square feet** 4,720

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Wood Siding	0.93
Air Space	1.10
Gyp. Board	0.56
Inside Surface	0.68
Total R-Value	3.44
Total U-Value	0.29

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
Air Space	1.10
Gyp. Board	0.56
Inside Surface	0.61
Total R-Value	3.81
Total U-Value	0.26

Calculated Total Area	
No. of Floors	2
Avg. Floor to Floor Height	9
No. of Basement Levels	
Gross Floor Area	4720
Roof Area	2400
Estimated Infiltration (cfm)	630
Gross Wall Area	3960
Door Area	40
Gross Window Area	470
Other	
Net Wall Area	3450

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$UoAo = (3450 \times 0.29) + (2400 \times 0.26) + (40 \times 0.5) + (470 \times 0.6) = 1931.5$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

EQUIPMENT		SYSTEM NUMBER							
Equipment Name		1	2	3	4	5	6	7	8
<b>COOLING:</b>		Furnace	CU-1	CU-2					
Type of Cooling									
Air Side									
Location in Building									
Area Sq. Feet									
Supply CFM		4300							
Supply Fan HP		1.5							
O.A. CFM or %		0%							
Return CFM									
Return Fan HP									
Chiller Tonnage			7 1/2	7 1/2					
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
<b>HEATING:</b>									
Type of Heating		4							
Source		1							
MBTUH		490/392							
Hot Water Pump HP									
Condensate Pump HP									
<b>ADDITIONAL:</b>									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
<b>Type of Cooling</b>		<b>Type of Heating</b>							
(1) Air Cooled DX	(4) Water Cooled Chiller	(1) Boiler Hot Water			(4) Furnace				
(2) Water Cooled DX	(5) Central Plant Supplied	(2) Boiler Steam							
(3) Air Cooled Chiller	(6) Other	(3) Steam to Hot Water Converter							
<b>Air Side</b>		<b>Heating Source</b>							
(1) Single Zone	(4) VAV w/ Reheat	(1) Natural Gas			(4) Oil				
(2) Multi-Zone	(5) Constant Volume Reheat	(2) Central Plant Steam			(5) Electric				
(3) VAV	(6) Heating and Ventilating	(3) Central Plant Hot Water							

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 2812

Case: 1

Description: ADMINISTRATIVE

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Direct Fired Furnace

Description: GAS FIRED FURNACE

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	58.533	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	58.533	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	56,773 cf/yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: AIR CONDITIONERS

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	294	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	294 kWh/yr	0.0 kW	4 mh/yr



## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	11,232	0.0	0
Totals	0.000	11,232	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 2812

Description	Value	Units
Natural gas (methane)	56,773	cf/yr
Electrical Energy	11,526	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	8	mh/yr

# FT. MEADE, MARYLAND

**Building:** 3000

**Square feet** 10,863

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Vinyl Siding	0.50
1/2" Insulation	2.00
Wood Siding	0.79
Air Space	1.10
Gyp Board	0.56
Inside Surface	0.68
Total R-Value	<b>5.80</b>
Total U-Value	<b>0.17</b>

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
6" Batt Insulation	19.00
Air Space	1.10
Gyp Board	0.56
Inside Surface	0.61
Total R-Value	<b>22.81</b>
Total U-Value	<b>0.04</b>

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	25
No. of Basement Levels	1
Gross Floor Area	10863
Roof Area	10863
Estimated Infiltration (cfm)	4500
Gross Wall Area	12500
Door Area	250
Gross Window Area	400
Other	
Net Wall Area	11850

Window and Door	
	U-Value
Window Single Pane W/Storm	1.00
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$UoAo = (11850 \times 0.17) + (10863 \times 0.04) + (250 \times 1.0) + (400 \times 1.0) = 3097$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 3000

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	AHU-1	Boiler						
COOLING:								
Type of Cooling	1							
Air Side	1							
Location in Building								
Area Sq. Feet	10863							
Supply CFM	20000							
Supply Fan HP	5							
O.A. CFM or %	20%							
Return CFM								
Return Fan HP								
Chiller Tonnage	70							
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP								
HEATING:								
Type of Heating		2						
Source		1						
MBTUH		3313/2650						
Hot Water Pump HP								
Condensate Pump HP		1/3						
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling			Type of Heating					
(1) Air Cooled DX							(1) Boiler Hot Water	
(2) Water Cooled DX							(2) Boiler Steam	
(3) Air Cooled Chiller							(3) Steam to Hot Water Converter	
Air Side			Heating Source					
(1) Single Zone							(1) Natural Gas	(4) Oil
(2) Multi-Zone							(2) Central Plant Steam	(5) Electric
(3) VAV							(3) Central Plant Hot Water	

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 3000
Case: 1
Description: DPW OPERATIONS
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-1
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.7	0
Day/Night Setback	413.221	1,317	0.0	0
Vent/Recirculation	63.685	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
-----				
Subtotals	476.906	1,317	0.7	4
Heating Value /	1,031 Btu/cf			
=====				
Totals	462,567	1,317	0.7	4
	cf /yr	kWh/yr	kW	mh/yr

```

=====

```

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: DX AIR COOLED CHILLER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	4,415	0.0	0
Demand Limiting	0.000	0	0.7	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	4,415	0.7	4
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 3000

Description	Value	Units
Natural gas (methane)	462,567	cf /yr
Electrical Energy	5,732	kWh/yr
Electrical Demand Reduction	1.5	kW
Labor Savings	8	mh/yr

**ATTACHMENT SECTION 8.2C**

**BUILDINGS 4215 TO 4471**

# FT. MEADE, MARYLAND

Building: 4215

Square feet 74,059

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Face Brick	0.44
Concrete Block	1.72
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
3" Batt Insulation	11.00
Air Space	1.10
Plaster	0.56
Inside Surface	0.61
Total R-Value	14.81
Total U-Value	0.07

Calculated Total Area	
No. of Floors	3
Avg. Floor to Floor Height	14
No. of Basement Levels	1
Gross Floor Area	74059
Roof Area	18770
Estimated Infiltration (cfm)	11900
Gross Wall Area	40220
Door Area	250
Gross Window Area	2950
Other	
Net Wall Area	37020

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$U_oA_o = (37020 * 0.21) + (18770 * 0.07) + (2950 * 0.6) + (250 * 0.5) = 10983$$



# **FT. MEADE, MARYLAND EQUIPMENT SCHEDULE**

**BUILDING NO. 4215**

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	Boiler	Boiler	Chiller	Fan Coils				
COOLING:								
Type of Cooling			3					
Air Side								
Location in Building								
Area Sq. Feet								
Supply CFM								
Supply Fan HP				60				
O.A. CFM or %								
Return CFM								
Return Fan HP								
Chiller Tonnage			125					
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP			7 1/2					
HEATING:								
Type of Heating	1	1						
Source	1	1						
MBTUH	2052	2052						
Hot Water Pump HP	7 1/2							
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling				Type of Heating				
(1) Air Cooled DX				(1) Boiler Hot Water			(4) Furnace	
(2) Water Cooled DX				(2) Boiler Steam				
(3) Air Cooled Chiller				(3) Steam to Hot Water Converter				
Air Side				Heating Source				
(1) Single Zone				(1) Natural Gas			(4) Oil	
(2) Multi-Zone				(2) Central Plant Steam			(5) Electric	
(3) VAV				(3) Central Plant Hot Water				



## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4215
Case: 1
Description:
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Two Pipe Fan Coil Unit

```

=====
Description: Fan Coil Units
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	1,220.897	2,645	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	1,220.897	2,645	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	1,184,187 cf /yr	2,645 kWh/yr	0.0 kW	4 mh/yr

```

=====

```

## Annual Energy Savings Table for Hot Water Boiler

Description: B-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	351.771	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	351.771	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	341,194 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: C-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	2,943	0.0	0
Chiller Water Reset	0.000	5,220	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	8,163 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	165,360	0.0	0
Totals	0.000 MBtu/yr	165,360 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 4215

Description	Value	Units
Natural gas (methane)	1,525,381	cf /yr
Electrical Energy	176,168	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	12	mh/yr

# FT. MEADE, MARYLAND

**Building:** 4216

**Square feet** 37,244

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Face Brick	0.44
Concrete Block	1.72
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
3" Batt Insulation	11.00
Air Space	1.10
Plaster	0.56
Inside Surface	0.61
Total R-Value	14.81
Total U-Value	0.07

Calculated Total Area	
No. of Floors	3
Avg. Floor to Floor Height	14
No. of Basement Levels	1
Gross Floor Area	37244
Roof Area	9300
Estimated Infiltration (cfm)	4350
Gross Wall Area	18780
Door Area	170
Gross Window Area	900
Other	
Net Wall Area	17710

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$U_oA_o = (17710 * 0.21) + (9300 * 0.07) + (900 * 0.6) + (170 * 0.5) = 4995.1$$



BUILDING NO. 4216

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name	Boiler		Chiller 3	Fan Coils					
COOLING:									
Type of Cooling									
Air Side									
Location in Building									
Area Sq. Feet									
Supply CFM				30					
Supply Fan HP									
O.A. CFM or %									
Return CFM									
Return Fan HP									
Chiller Tonnage			60						
Tower or Condenser Fan HP									
Condenser Pump HP			3						
Chilled Water Pump HP									
HEATING:									
Type of Heating	1								
Source	1								
MBTUH	2100								
Hot Water Pump HP	1								
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling					Type of Heating				
(1) Air Cooled DX	(4) Water Cooled Chiller				(1) Boiler Hot Water				
(2) Water Cooled DX	(5) Central Plant Supplied				(2) Boiler Steam				
(3) Air Cooled Chiller	(6) Other				(3) Steam to Hot Water Converter				
Air Side					Heating Source				
(1) Single Zone	(4) VAV w/ Reheat				(1) Natural Gas				
(2) Multi-Zone	(5) Constant Volume Reheat				(2) Central Plant Steam				
(3) VAV	(6) Heating and Ventilating				(3) Central Plant Hot Water				
					(4) Oil				
					(5) Electric				

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE  
Building: 4216

Case: 1

Description: Administration

Fuel Type: Natural gas (methane)  
Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Two Pipe Fan Coil Unit

Description: Fan Coil Units

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	434.445	1,076	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	434.445	1,076	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	421,382 cf /yr	1,076 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: B-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	157.500	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	157.500	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	152,764 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: C-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	589	0.0	0
Chiller Water Reset	0.000	2,506	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	3,094 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: Lighting				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	78,000	0.0	0
Totals	0.000 MBtu/yr	78,000 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 4216

Description	Value	Units
Natural gas (methane)	574,146	cf /yr
Electrical Energy	82,170	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	12	mh/yr



# FT. MEADE, MARYLAND

Building: 4217

Square feet 34,548

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Face Brick	0.44
Concrete Block	1.72
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Calculated Total Area	
No. of Floors	3
Avg. Floor to Floor Height	14
No. of Basement Levels	1
Gross Floor Area	34548
Roof Area	8900
Estimated Infiltration (cfm)	4150
Gross Wall Area	12416
Door Area	100
Gross Window Area	1000
Other	
Net Wall Area	11316

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
3" Batt Insulation	11.00
Air Space	1.10
Plaster	0.56
Inside Surface	0.61
Total R-Value	14.81
Total U-Value	0.07

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$U_oA_o = (11316 * 0.21) + (8900 * 0.07) + (1000 * 0.6) + (100 * 0.5) = 3649.4$$



**FT. MEADE, MARYLAND  
EQUIPMENT SCHEDULE**

**BUILDING NO. 4217**

Page 1 of 1

EQUIPMENT		SYSTEM NUMBER							
Equipment Name		1	2	3	4	5	6	7	8
<b>COOLING:</b>									
Type of Cooling									
Air Side									
Location in Building									
Area Sq. Feet									
Supply CFM									
Supply Fan HP									
O.A. CFM or %									
Return CFM									
Return Fan HP									
Chiller Tonnage									
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
<b>HEATING:</b>									
Type of Heating									
Source									
MBTUH									
Hot Water Pump HP									
Condensate Pump HP									
<b>ADDITIONAL:</b>									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
<b>Type of Cooling</b>		<b>Type of Heating</b>							
(1) Air Cooled DX		(1) Boiler Hot Water							
(2) Water Cooled DX		(2) Boiler Steam							
(3) Air Cooled Chiller		(3) Steam to Hot Water Converter							
<b>Air Side</b>		<b>Heating Source</b>							
(1) Single Zone		(1) Natural Gas							
(2) Multi-Zone		(2) Central Plant Steam							
(3) VAV		(3) Central Plant Hot Water							

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4217
Case: 1
Description:
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Two Pipe Fan Coil Unit

```

=====
Description: Fan Coil Units
=====
Strategy                MBtu/yr      kWh/yr      kW   mh/yr
=====
Day/Night Setback       416.569      1,354       0.0    0
Run Time Recording       0.000        0           0.0    2
Safety Alarm             0.000        0           0.0    2
-----
Subtotals                416.569      1,354       0.0    4
Heating Value /         1,031 Btu/cf
=====
Totals                  404,044      1,354       0.0    4
                        cf /yr      kWh/yr      kW   mh/yr
=====

```

## Annual Energy Savings Table for Hot Water Boiler

Description: B-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	216.000	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	216.000	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	209,505 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: CHILLER

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	981	0.0	0
Chiller Water Reset	0.000	2,088	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	3,069 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: Lighting

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	73,840	0.0	0
Totals	0.000 MBtu/yr	73,840 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 4217

Description	Value	Units
Natural gas (methane)	613,549	cf /yr
Electrical Energy	78,263	kWh/yr
Electrical Demand Reduction	0.0	kW
Labor Savings	12	mh/yr

# FT. MEADE, MARYLAND

**Building:** 4411

**Square feet** 39,379

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Air Space	1.10
Concrete Block	1.72
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Slate Roof	0.00
1" Insulation	4.00
Air Space	1.10
Acoustical Tile Clg	1.89
Inside Surface	0.61
Total R-Value	7.77
Total U-Value	0.13

Calculated Total Area	
No. of Floors	3
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	39379
Roof Area	10030
Estimated Infiltration (cfm)	5000
Gross Wall Area	34400
Door Area	155
Gross Window Area	2565
Other	
Net Wall Area	31680

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	1.00
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	



BUILDING NO. 4411

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name		AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	Boiler	Boiler	Chiller
COOLING:									
Type of Cooling		3	3	3	3	3			3
Air Side		1	1	1	1	1			
Location in Building		1/2 Bsmt	1/2 Bsmt	1st Flr	2nd Flr	3rd Flr			
Area Sq. Feet		4725	4725	9446	9446	4887			
Supply CFM		3150	2650	10650	10850	5350			
Supply Fan HP		2	1	7 1/2	7 1/2	5			
O.A. CFM or %		20%	20%	20%	20%	20%			
Return CFM									
Return Fan HP									
Chiller Tonnage									95
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									5
HEATING:									
Type of Heating							1	1	
Source							1	1	
MBTUH							2000	2000	
Hot Water Pump HP							2	2	
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling						Type of Heating			
(1) Air Cooled DX		(4) Water Cooled Chiller				(1) Boiler Hot Water			
(2) Water Cooled DX		(5) Central Plant Supplied				(2) Boiler Steam			
(3) Air Cooled Chiller		(6) Other				(3) Steam to Hot Water Converter			
Air Side						Heating Source			
(1) Single Zone		(4) VAV w/ Reheat				(1) Natural Gas			
(2) Multi-Zone		(5) Constant Volume Reheat				(2) Central Plant Steam			
(3) VAV		(6) Heating and Ventilating				(3) Central Plant Hot Water			

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 4411

Case: 1

Description: ADMINISTRATIVE

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.3	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	0.3	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-2

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.1	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	0.1	4
	MBtu/yr	kWh/yr	kW	mh/yr



## Annual Energy Savings Table for Single Zone AHU

Description: AHU-3				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.1	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	1.1	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-4				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.1	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	1.1	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-5				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.7	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	0.7	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: BOILERS				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	160.000	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	160.000	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	155,189 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: CHILLER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	1,962	0.0	0
Chiller Water Reset	0.000	5,157	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	7,120 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	76,128	0.0	0
Totals	0.000 MBtu/yr	76,128 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 4411

=====		
Description	Value	Units
=====		
Natural gas (methane)	155,189	cf /yr
Electrical Energy	83,248	kWh/yr
Electrical Demand Reduction	3.4	kW
Labor Savings	28	mh/yr
=====		

**UMCS FEASIBILITY STUDY  
FORT MEADE  
BUILDING 4411 - ADMINISTRATIVE  
DOE ENERGY SAVINGS SUMMARY**

	Space Heat		Space Cool		HVAC Aux		Lights		Misc Equip		TOTAL		TOTAL	
	Electricity mmBtu	Natural Gas mmBtu	Electricity mmBtu		Electricity mmBtu		Electricity mmBtu		Electricity mmBtu		Electricity mmBtu	Natural Gas mmBtu	Electricity Kwh	Natural Gas MCF
Existing	182.7	3,430.0	1,458.6		920.9		667.6		190.7		3,420.6	3,430.0	1,002,212	3,326.9
New w/Night Setback	80.2	1,610.6	842.4		397.1		667.6		190.7		2,178.1	1,610.6	638,169	1,562.1
Night Setback Savings											1,242.5	1,819.5	364,043	1,764.7
New w/Night Setback and Vent/Recirc	80.2	1,610.6	842.4		397.1		667.6		190.7		2,178.1	1,610.6	638,169	1,562.1
Vent/Recirc Savings											0.0	0.0	0	0.0
New w/Night Setback & Vent/Recirc & Economizer	59.0	1,142.8	787.3		373.3		667.6		190.7		2,077.8	1,142.8	608,799	1,108.4
Economizer Savings											100.2	467.7	29,370	453.7

ENTECH ENGINEERING READING, PA 19603 SH-1 = HOURLY-REPORT			RZDOB - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE UMCS STUDY			DOE-2.1D 1/12/1996 10: 4:42 SDL RUN 1 BUILDING 4411 - EXISTING CONDITIONS			PAGE 1- 1
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	
	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	
MONTHLY SUMMARY (JAN)									
MN	-300248.	0.	6.295	209824.	-387286.	-345830.	0.	7.808	
MX	-33672.	0.	6.295	209824.	-387286.	-4823.	0.	7.808	
SM	-118959480.	0.	4683.181	156108720.	-288140864.	-130958160.	0.	5809.003	
AV	-159892.	0.	6.295	209824.	-387286.	-176019.	0.	7.808	
MONTHLY SUMMARY (FEB)									
MN	-353132.	0.	6.295	209824.	-387286.	-377596.	0.	7.808	
MX	0.	0.	6.295	212276.	-387286.	0.	0.	7.808	
SM	-99642504.	0.	4229.970	141006464.	-260256224.	-106619424.	0.	5246.842	
AV	-148278.	0.	6.295	209831.	-387286.	-158660.	0.	7.808	
MONTHLY SUMMARY (MAR)									
MN	-263405.	0.	6.295	209824.	-387286.	-289505.	0.	7.808	
MX	0.	0.	6.295	265801.	-387286.	0.	0.	7.808	
SM	-70018680.	0.	4683.181	156494224.	-288140864.	-70617696.	0.	5809.003	
AV	-94111.	0.	6.295	210342.	-387286.	-94916.	0.	7.808	
MONTHLY SUMMARY (APR)									
MN	-203425.	0.	6.295	209824.	-387286.	-227323.	0.	7.808	
MX	0.	0.	6.295	354311.	-387286.	0.	0.	7.808	
SM	-33377586.	0.	4532.111	155199408.	-278845984.	-31053134.	0.	5621.616	
AV	-46358.	0.	6.295	215555.	-387286.	-43129.	0.	7.808	
MONTHLY SUMMARY (MAY)									
MN	0.	0.	6.295	209824.	0.	0.	0.	7.808	
MX	0.	135339.	6.295	407912.	0.	0.	191805.	7.808	
SM	0.	10418714.	4683.181	173725648.	0.	0.	19643766.	5809.003	
AV	0.	14004.	6.295	233502.	0.	0.	26403.	7.808	
MONTHLY SUMMARY (JUN)									
MN	0.	0.	6.295	209824.	0.	0.	0.	7.808	
MX	0.	267409.	6.295	391435.	0.	0.	347065.	7.808	
SM	0.	49564116.	4532.111	203993792.	0.	0.	71222832.	5621.616	
AV	0.	68839.	6.295	283325.	0.	0.	98921.	7.808	
MONTHLY SUMMARY (JUL)									
MN	0.	0.	6.295	213905.	0.	0.	0.	7.808	
MX	0.	287726.	6.295	430765.	0.	0.	370593.	7.808	
SM	0.	74868000.	4683.181	234667392.	0.	0.	101457600.	5809.003	
AV	0.	100629.	6.295	315413.	0.	0.	136368.	7.808	

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	6.295	209824.	0.	0.	0.	7.808
MX	0.	276082.	6.295	411727.	0.	0.	361398.	7.808
SM	0.	66890928.	4683.181	228097088.	0.	0.	90853440.	5809.003
AV	0.	89907.	6.295	306582.	0.	0.	122115.	7.808
MONTHLY SUMMARY (SEP)								
MN	0.	0.	6.295	209824.	0.	0.	0.	7.808
MX	0.	214755.	6.295	421187.	0.	0.	291863.	7.808
SM	0.	33329984.	4532.111	191687312.	0.	0.	48792640.	5621.616
AV	0.	46292.	6.295	266232.	0.	0.	67768.	7.808
MONTHLY SUMMARY (OCT)								
MN	-210746.	0.	6.295	209824.	-387286.	-215602.	0.	7.808
MX	0.	104493.	6.295	338813.	0.	0.	166164.	7.808
SM	-14723614.	2595898.	4683.181	164727824.	-148717856.	-14149644.	7265280.	5809.003
AV	-19790.	3489.	6.295	221408.	-199890.	-19018.	9765.	7.808
MONTHLY SUMMARY (NOV)								
MN	-181160.	0.	6.295	209824.	-387286.	-204477.	0.	7.808
MX	0.	0.	6.295	522671.	-387286.	0.	0.	7.808
SM	-57807444.	0.	4532.111	163123040.	-278845984.	-61087100.	0.	5621.616
AV	-80288.	0.	6.295	226560.	-387286.	-84843.	0.	7.808
MONTHLY SUMMARY (DEC)								
MN	-268129.	0.	6.295	209824.	-387286.	-302979.	0.	7.808
MX	-2747.	0.	6.295	224744.	-387286.	0.	0.	7.808
SM	-104483408.	0.	4683.181	156171888.	-288140864.	-115225216.	0.	5809.003
AV	-140435.	0.	6.295	209908.	-387286.	-154873.	0.	7.808
YEARLY SUMMARY								
MN	-353132.	0.	6.295	209824.	-387286.	-377596.	0.	7.808
MX	0.	287726.	6.295	522671.	0.	0.	370593.	7.808
SM	-499012736.	237667648.	55140.676	2125002880.	-1831088640.	-529710336.	339235552.	68396.336
AV	-56965.	27131.	6.295	242580.	-209028.	-60469.	38726.	7.808

MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)
MONTHLY SUMMARY (JAN)								
MN	258907.	-480388.	-404703.	0.	8.954	295777.	-550935.	-241389.
MX	258907.	-480388.	-8227.	0.	8.954	295777.	-550935.	-26209.
SM	192627056.	-357408768.	-154702912.	0.	6662.078	220058368.	-409895648.	-96421584.
AV	258907.	-480388.	-207934.	0.	8.954	295777.	-550935.	-129599.
MONTHLY SUMMARY (FEB)								
MN	258907.	-480388.	-431732.	0.	8.954	295777.	-550935.	-250292.
MX	274453.	-480388.	0.	0.	8.954	313533.	-550935.	0.
SM	174033952.	-322820832.	-124956880.	0.	6017.360	198817216.	-370228352.	-78644240.
AV	258979.	-480388.	-185948.	0.	8.954	295859.	-550935.	-117030.
MONTHLY SUMMARY (MAR)								
MN	258907.	-480388.	-330326.	0.	8.954	295777.	-550935.	-197323.
MX	328518.	-480388.	0.	0.	8.954	375235.	-550935.	0.
SM	193567120.	-357408768.	-84474464.	0.	6662.078	221169888.	-409895648.	-55833100.
AV	260171.	-480388.	-113541.	0.	8.954	297271.	-550935.	-75044.
MONTHLY SUMMARY (APR)								
MN	258907.	-480388.	-264198.	0.	8.954	295777.	-550935.	-159435.
MX	465270.	-480388.	0.	0.	8.954	530872.	-550935.	0.
SM	194205776.	-345879456.	-38335336.	0.	6447.172	221948672.	-396673216.	-27458628.
AV	269730.	-480388.	-53244.	0.	8.954	308262.	-550935.	-38137.
MONTHLY SUMMARY (MAY)								
MN	258907.	0.	0.	0.	8.954	295777.	0.	0.
MX	462013.	0.	0.	218684.	8.954	554224.	0.	0.
SM	215567536.	0.	0.	21907426.	6662.078	246400416.	0.	0.
AV	289741.	0.	0.	29445.	8.954	331183.	0.	0.
MONTHLY SUMMARY (JUN)								
MN	258907.	0.	0.	0.	8.954	295777.	0.	0.
MX	460458.	0.	0.	394611.	8.954	524936.	0.	0.
SM	249491536.	0.	0.	79895952.	6447.172	285177312.	0.	0.
AV	346516.	0.	0.	110967.	8.954	396080.	0.	0.
MONTHLY SUMMARY (JUL)								
MN	263716.	0.	0.	0.	8.954	298781.	0.	0.
MX	526733.	0.	0.	421986.	8.954	601665.	0.	0.
SM	285447264.	0.	0.	114473720.	6662.078	326053344.	0.	0.
AV	383666.	0.	0.	153863.	8.954	438244.	0.	0.

	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)
MONTHLY SUMMARY (AUG)								
MN	258907.	0.	0.	0.	8.954	295777.	0.	0.
MX	500753.	0.	0.	411233.	8.954	571789.	0.	0.
SM	278452224.	0.	0.	101841168.	6662.078	318443680.	0.	0.
AV	374264.	0.	0.	136883.	8.954	428016.	0.	0.
MONTHLY SUMMARY (SEP)								
MN	258907.	0.	0.	0.	8.954	295777.	0.	0.
MX	518655.	0.	0.	336007.	8.954	600823.	0.	0.
SM	235943632.	0.	0.	54327460.	6447.172	269529056.	0.	0.
AV	327700.	0.	0.	75455.	8.954	374346.	0.	0.
MONTHLY SUMMARY (OCT)								
MN	258907.	-480388.	-244824.	0.	8.954	295777.	-550935.	-150065.
MX	430959.	0.	0.	188338.	8.954	491659.	0.	0.
SM	205208352.	-184469088.	-17637110.	8023775.	6662.078	234210736.	-211559088.	-12561942.
AV	275818.	-247942.	-23706.	10785.	8.954	314799.	-284354.	-16884.
MONTHLY SUMMARY (NOV)								
MN	258907.	-480388.	-239512.	0.	8.954	295777.	-550935.	-143876.
MX	662049.	-480388.	0.	0.	8.954	755997.	-550935.	0.
SM	202339936.	-345879456.	-73774136.	0.	6447.172	230922928.	-396673216.	-48205740.
AV	281028.	-480388.	-102464.	0.	8.954	320726.	-550935.	-66952.
MONTHLY SUMMARY (DEC)								
MN	258907.	-480388.	-349257.	0.	8.954	295777.	-550935.	-207525.
MX	277410.	-480388.	0.	0.	8.954	316805.	-550935.	-4865.
SM	192718656.	-357408768.	-136545568.	0.	6662.078	220162176.	-409895648.	-85200568.
AV	259030.	-480388.	-183529.	0.	8.954	295917.	-550935.	-114517.
YEARLY SUMMARY								
MN	258907.	-480388.	-431732.	0.	8.954	295777.	-550935.	-250292.
MX	662049.	0.	0.	421986.	8.954	755997.	0.	0.
SM	2619602944.	-2271275008.	-630426368.	380469504.	78440.594	2992893952.	-2604820736.	-404325792.
AV	299041.	-259278.	-71966.	43433.	8.954	341655.	-297354.	-46156.



MMDDHH	AHU-4	AHU-4	AHU-4	AHU-4
	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- ( 6)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)				
MN	0.	4.766	155664.	-293224.
MX	0.	4.766	155664.	-293224.
SM	0.	3545.754	115814320.	-218158688.
AV	0.	4.766	155664.	-293224.
MONTHLY SUMMARY (FEB)				
MN	0.	4.766	155664.	-293224.
MX	0.	4.766	160319.	-293224.
SM	0.	3202.617	104615744.	-197046560.
AV	0.	4.766	155678.	-293224.
MONTHLY SUMMARY (MAR)				
MN	0.	4.766	155664.	-293224.
MX	0.	4.766	197184.	-293224.
SM	0.	3545.754	116194384.	-218158688.
AV	0.	4.766	156175.	-293224.
MONTHLY SUMMARY (APR)				
MN	0.	4.766	155664.	-293224.
MX	0.	4.766	273065.	-293224.
SM	0.	3431.375	115785296.	-211121312.
AV	0.	4.766	160813.	-293224.
MONTHLY SUMMARY (MAY)				
MN	0.	4.766	155664.	0.
MX	111190.	4.766	302441.	0.
SM	9042501.	3545.754	129421816.	0.
AV	12154.	4.766	173954.	0.
MONTHLY SUMMARY (JUN)				
MN	0.	4.766	155664.	0.
MX	209331.	4.766	283165.	0.
SM	39713716.	3431.375	150782464.	0.
AV	55158.	4.766	209420.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	4.766	156263.	0.
MX	227022.	4.766	318717.	0.
SM	59073152.	3545.754	172398944.	0.
AV	79399.	4.766	231719.	0.

AHU-4	AHU-4	AHU-4	AHU-4
TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
---- ( 6 )	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (AUG)			
MN 0.	4.766	155664.	0.
MX 216808.	4.766	299501.	0.
SM 52234332.	3545.754	168466656.	0.
AV 70207.	4.766	226434.	0.
MONTHLY SUMMARY (SEP)			
MN 0.	4.766	155664.	0.
MX 176141.	4.766	321067.	0.
SM 26143264.	3431.375	142061760.	0.
AV 36310.	4.766	197308.	0.
MONTHLY SUMMARY (OCT)			
MN 0.	4.766	155664.	-293224.
MX 87421.	4.766	253048.	0.
SM 2512896.	3545.754	122556376.	-112598048.
AV 3378.	4.766	164726.	-151341.
MONTHLY SUMMARY (NOV)			
MN 0.	4.766	155664.	-293224.
MX 0.	4.766	396613.	-293224.
SM 0.	3431.375	121185272.	-211121312.
AV 0.	4.766	168313.	-293224.
MONTHLY SUMMARY (DEC)			
MN 0.	4.766	155664.	-293224.
MX 0.	4.766	166606.	-293224.
SM 0.	3545.754	115869344.	-218158688.
AV 0.	4.766	155738.	-293224.
YEARLY SUMMARY			
MN 0.	4.766	155664.	-293224.
MX 227022.	4.766	396613.	0.
SM 188719856.	41748.395	1575152512.	-1386363264.
AV 21543.	4.766	179812.	-158261.

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1  
BUILDING 4411 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

[illegible]

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 1/12/1996 10: 4:42 PDL RUN 1  
BUILDING 4411 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

MONTH	S I T E E N E R G Y												* SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	507.9	0.0	189.7 55.6E	0.0	0.0	0.0	0.0 0.0E	823.9	47.3 13.9E	0.0	823.9	1013.6	1393.7
FEB	416.1	0.0	167.4 49.0E	0.0	0.0	0.0	0.0 0.0E	673.0	38.7 11.3E	0.0	673.0	840.4	1175.8
MAR	287.8	0.0	177.3 51.9E	0.0	0.0	0.0	0.0 0.0E	470.3	29.2 8.5E	0.0	470.3	647.6	1002.8
APR	136.9	0.0	155.5 45.6E	0.0	0.0	0.0	0.0 0.0E	223.7	15.8 4.6E	0.0	223.7	379.2	690.8
MAY	0.0	80.5	277.9 81.4E	0.0	0.0	0.0	135.5 39.7E	0.0	0.0 0.0E	0.0	0.0	277.9	834.6
JUN	0.0	259.2	451.4 132.2E	0.0	0.0	0.0	308.8 90.4E	0.0	0.0 0.0E	0.0	0.0	451.4	1355.6
JUL	0.0	369.3	540.2 158.2E	0.0	0.0	0.0	400.7 117.3E	0.0	0.0 0.0E	0.0	0.0	540.2	1622.3
AUG	0.0	331.3	510.5 149.5E	0.0	0.0	0.0	362.3 106.1E	0.0	0.0 0.0E	0.0	0.0	510.5	1533.0
SEP	0.0	181.4	376.7 110.3E	0.0	0.0	0.0	236.9 69.4E	0.0	0.0 0.0E	0.0	0.0	376.7	1131.2
OCT	62.6	39.9	225.6 66.1E	0.0	0.0	0.0	78.6 23.0E	102.3	7.5 2.2E	0.0	102.3	328.0	779.9
NOV	247.5	0.0	162.4 47.6E	0.0	0.0	0.0	0.0 0.0E	404.5	25.5 7.5E	0.0	404.5	566.9	892.2
DEC	448.4	0.0	185.6 54.4E	0.0	0.0	0.0	0.0 0.0E	732.2	43.2 12.7E	0.0	732.2	917.9	1289.7
-----	2107.3	1261.6	3420.4 1001.8E	0.0	0.0	0.0	1522.8 446.0E	3430.0	207.1 60.7E	0.0	3430.0	6850.5	13701.6

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1  
BUILDING 4411 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	189.735	823.908
JAN	PEAK (KBTU)	464.611	1989.593
	DY/HR	31/10	31/ 6
	TOTAL (MBTU)	167.428	672.976
FEB	PEAK (KBTU)	464.611	2109.389
	DY/HR	4/ 9	12/10
	TOTAL (MBTU)	177.320	470.319
MAR	PEAK (KBTU)	450.679	1741.406
	DY/HR	4/ 7	5/ 8
	TOTAL (MBTU)	155.532	223.712
APR	PEAK (KBTU)	437.423	1411.326
	DY/HR	8/ 7	9/ 8
	TOTAL (MBTU)	277.936	0.000
MAY	PEAK (KBTU)	1003.018	0.000
	DY/HR	6/17	31/ 1
	TOTAL (MBTU)	451.426	0.000
JUN	PEAK (KBTU)	1114.769	0.000
	DY/HR	28/15	30/ 1
	TOTAL (MBTU)	540.215	0.000
JUL	PEAK (KBTU)	1119.294	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	510.497	0.000
AUG	PEAK (KBTU)	1117.074	0.000
	DY/HR	18/15	31/ 1
	TOTAL (MBTU)	376.706	0.000
SEP	PEAK (KBTU)	1101.149	0.000
	DY/HR	1/17	30/ 1
	TOTAL (MBTU)	225.624	102.348
OCT	PEAK (KBTU)	970.493	1357.165
	DY/HR	13/16	16/ 2
	TOTAL (MBTU)	162.397	404.529
NOV	PEAK (KBTU)	434.182	1263.524
	DY/HR	25/ 7	8/ 5
	TOTAL (MBTU)	185.626	732.238
DEC	PEAK (KBTU)	461.595	1797.763
	DY/HR	21/ 9	22/ 3
	ONE YEAR	3420.442	3430.031
	USE/PEAK	1119.294	2109.389

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1  
BUILDING 4411 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	2107.3	100.0
LOAD SATISFIED	2107.3	100.0
TOTAL LOAD ON PLANT	2107.3	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-RBC-CHLR	1261.6	100.0
LOAD SATISFIED	1261.6	100.0
TOTAL LOAD ON PLANT	1261.6	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	3420.4	100.0
LOAD SATISFIED	3420.4	100.0
TOTAL LOAD ON PLANT	3420.4	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1  
BUILDING 4411 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2107.3	2107.3	0.000	0.000	0
COOLING LOADS	1261.6	1261.6	3.182	0.262	51
ELECTRICAL LOADS	3420.4	3420.4	0.000	0.000	0

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1  
 BUILDING 4411 - EXISTING CONDITIONS  
 WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	----- MON DAY HR		----- SIZE OPER (MBTU) HRS		----- SIZE OPER (MBTU) HRS		----- SIZE OPER (MBTU) HRS		----- SIZE OPER (MBTU) HRS	
HW-BOILER	0.111	1.401	2	12 10	4.000	4728						
HEM-REC-CHLR	0.260	1.167	7	25 23	1.100	4416						



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 1/12/1996 10: 4:42 PDL RUN 1  
BUILDING 4411 - EXISTING CONDITIONS  
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

HW-BOILER	189.8		
NOMINAL SIZE (MBTU)		4.000	
NUMBER INSTALLED		2	
FIRST COST (K\$)	179.6	179.6	
ANNUAL COST (K\$)	4.6	4.6	
CYCLICAL COST (K\$)	5.6	5.6	
-----TOTAL----- (K\$)		189.8	
HERM-REC-CHLR	36.5		
NOMINAL SIZE (MBTU)		1.100	
NUMBER INSTALLED		1	
FIRST COST (K\$)	24.2	24.2	
ANNUAL COST (K\$)	2.3	2.3	
CYCLICAL COST (K\$)	10.1	10.1	
-----TOTAL----- (K\$)		36.5	
EQUIPMENT TOTAL	226.3		

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	182.74	3430.00
SPACE COOL	1458.62	0.00
HVAC AUX	920.88	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	667.58	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	190.73	0.00
	-----	-----
TOTAL	3420.56	3430.00

TOTAL SITE ENERGY 6850.47 MBTU 206.2 KBTU/SQFT-YR GROSS-AREA 206.2 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY 13701.63 MBTU 412.4 KBTU/SQFT-YR GROSS-AREA 412.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.6

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HW-BOILS R LOAD BTU/HR ---- ( 1 )	HW-BOILS R ELECTRIC USE BTU/HR ---- ( 3 )	HW-BOILS R FUEL USE BTU/HR ---- ( 4 )	HERM-REC -CHLR LOAD BTU/HR ---- ( 1 )	HERM-REC -CHLR ELECTRIC USE BTU/HR ---- ( 3 )	HERM-REC -CHLR NOM CAP RUNNING BTU/HR ---- ( 7 )
MONTHLY SUMMARY (JAN)						
MN	83826.	7377.	136983.	0.	0.	0.
MX	1298967.	88000.	1989593.	0.	0.	0.
SM	507938560.	43477696.	823907648.	0.	0.	0.
AV	682713.	58438.	1107403.	0.	0.	0.
MONTHLY SUMMARY (FEB)						
MN	9269.	816.	15148.	0.	0.	0.
MX	1400574.	88000.	2109389.	0.	0.	0.
SM	416092096.	35231956.	672975488.	0.	0.	0.
AV	619185.	52429.	1001452.	0.	0.	0.
MONTHLY SUMMARY (MAR)						
MN	9269.	816.	15148.	0.	0.	0.
MX	1089828.	88000.	1741406.	0.	0.	0.
SM	287840416.	25319440.	470318880.	0.	0.	0.
AV	386882.	34032.	632149.	0.	0.	0.
MONTHLY SUMMARY (APR)						
MN	9269.	816.	15148.	0.	0.	0.
MX	863651.	76001.	1411326.	0.	0.	0.
SM	136898704.	12047083.	223711552.	0.	0.	0.
AV	190137.	16732.	310711.	0.	0.	0.
MONTHLY SUMMARY (MAY)						
MN	0.	0.	0.	26163.	47231.	1100000.
MX	0.	0.	0.	681945.	617023.	1100000.
SM	0.	0.	0.	80477848.	124697840.	818400000.
AV	0.	0.	0.	108169.	167605.	1100000.
MONTHLY SUMMARY (JUN)						
MN	0.	0.	0.	26163.	47231.	1100000.
MX	0.	0.	0.	1128034.	728773.	1100000.
SM	0.	0.	0.	259234160.	298312672.	792000000.
AV	0.	0.	0.	360047.	414323.	1100000.
MONTHLY SUMMARY (JUL)						
MN	0.	0.	0.	26163.	47231.	1100000.
MX	0.	0.	0.	1166669.	733298.	1100000.
SM	0.	0.	0.	369337856.	389848160.	818400000.
AV	0.	0.	0.	496422.	523989.	1100000.

HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR NOM CAP RUNNING BTU/HR
---- ( 1 )	---- ( 3 )	---- ( 4 )	---- ( 1 )	---- ( 3 )	---- ( 7 )
MONTHLY SUMMARY (AUG)					
MN 0.	0.	0.	26163.	47231.	1100000.
MX 0.	0.	0.	1123747.	731078.	1100000.
SM 0.	0.	0.	331285280.	351514112.	818400000.
AV 0.	0.	0.	445276.	472465.	1100000.
MONTHLY SUMMARY (SEP)					
MN 0.	0.	0.	26163.	47231.	1100000.
MX 0.	0.	0.	1044929.	715153.	1100000.
SM 0.	0.	0.	181430880.	226464992.	792000000.
AV 0.	0.	0.	251987.	314535.	1100000.
MONTHLY SUMMARY (OCT)					
MN 0.	0.	0.	26163.	47231.	1100000.
MX 830507.	73085.	1357165.	572580.	584497.	1100000.
SM 62631476.	5511569.	102348568.	39863280.	67764248.	818400000.
AV 84182.	7408.	137565.	53580.	91081.	1100000.
MONTHLY SUMMARY (NOV)					
MN 9269.	816.	15148.	0.	0.	0.
MX 773204.	68042.	1263524.	0.	0.	0.
SM 247548416.	21784262.	404528704.	0.	0.	0.
AV 343817.	30256.	561845.	0.	0.	0.
MONTHLY SUMMARY (DEC)					
MN 16882.	1486.	27587.	0.	0.	0.
MX 1137158.	88000.	1797763.	0.	0.	0.
SM 448351264.	39368704.	732237568.	0.	0.	0.
AV 602623.	52915.	984190.	0.	0.	0.
YEARLY SUMMARY					
MN 0.	0.	0.	0.	0.	0.
MX 1400574.	88000.	2109389.	1166669.	733298.	1100000.
SM 2107300864.	182740704.	3430028288.	1261629312.	1458601984.	4857600000.
AV 240559.	20861.	391556.	144022.	166507.	554521.

ENTECH ENGINEERING READING, PA 19603 SH-1			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE UMCS STUDY			DOE-2.1D 6/13/1996 7:54:59 SDL RUN 1 BUILDING 4411 - NEW CONDITIONS			PAGE 1- 1
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	
	---- ( 5 )	---- ( 6 )	---- (49)	---- (70)	---- (78)	---- ( 5 )	---- ( 6 )	---- (49)	
MONTHLY SUMMARY (JAN)									
MN	-402798.	0.	0.000	0.	-387286.	-499259.	0.	0.000	
MX	0.	0.	6.295	209824.	0.	0.	0.	7.808	
SM	-59015640.	0.	1586.239	52875556.	-97596120.	-62584944.	0.	1967.566	
AV	-79322.	0.	2.132	71069.	-131178.	-84120.	0.	2.645	
MONTHLY SUMMARY (FEB)									
MN	-399990.	0.	0.000	0.	-387286.	-496212.	0.	0.000	
MX	0.	0.	6.295	209824.	0.	0.	0.	7.808	
SM	-48701132.	0.	1435.169	47839788.	-88301256.	-48930920.	0.	1780.178	
AV	-72472.	0.	2.136	71190.	-131401.	-72814.	0.	2.649	
MONTHLY SUMMARY (MAR)									
MN	-391833.	0.	0.000	0.	-387286.	-454014.	0.	0.000	
MX	0.	0.	6.295	230420.	0.	0.	0.	7.808	
SM	-35330188.	0.	1737.309	58043904.	-106890984.	-31902280.	0.	2154.953	
AV	-47487.	0.	2.335	78016.	-143671.	-42879.	0.	2.896	
MONTHLY SUMMARY (APR)									
MN	-312783.	0.	0.000	0.	-387286.	-306333.	0.	0.000	
MX	0.	0.	6.295	349134.	0.	0.	0.	7.808	
SM	-14071661.	0.	1586.239	55092520.	-97596120.	-10899122.	0.	1967.566	
AV	-19544.	0.	2.203	76517.	-135550.	-15138.	0.	2.733	
MONTHLY SUMMARY (MAY)									
MN	0.	0.	0.000	0.	0.	0.	0.	0.000	
MX	0.	136146.	6.295	333317.	0.	0.	194034.	7.808	
SM	0.	7458229.	1586.239	59458168.	0.	0.	13624313.	1967.566	
AV	0.	10025.	2.132	79917.	0.	0.	18312.	2.645	
MONTHLY SUMMARY (JUN)									
MN	0.	0.	0.000	0.	0.	0.	0.	0.000	
MX	0.	286026.	6.295	390583.	0.	0.	374271.	7.808	
SM	0.	31959684.	1661.774	74974208.	0.	0.	45794332.	2061.259	
AV	0.	44388.	2.308	104131.	0.	0.	63603.	2.863	
MONTHLY SUMMARY (JUL)									
MN	0.	0.	0.000	0.	0.	0.	0.	0.000	
MX	0.	321078.	6.295	370146.	0.	0.	412239.	7.808	
SM	0.	42040324.	1510.704	71828808.	0.	0.	55945496.	1873.872	
AV	0.	56506.	2.031	96544.	0.	0.	75196.	2.519	

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	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	----( 5)	----( 6)	----(49)	----(70)	----(78)	----( 5)	----( 6)	----(49)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	295870.	6.295	157443.	0.	0.	385910.	7.808
SM	0.	43150440.	1737.309	81486536.	0.	0.	58901660.	2154.953
AV	0.	57998.	2.335	109525.	0.	0.	79169.	2.896
MONTHLY SUMMARY (SEP)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	252605.	6.295	352605.	0.	0.	321369.	7.808
SM	0.	21797450.	1586.239	65059808.	0.	0.	32337430.	1967.566
AV	0.	30274.	2.203	90361.	0.	0.	44913.	2.733
MONTHLY SUMMARY (OCT)								
MN	-260671.	0.	0.000	0.	-387286.	-259509.	0.	0.000
MX	0.	108775.	6.295	280685.	0.	0.	173853.	7.808
SM	-5237630.	2313090.	1510.704	53691632.	-51121784.	-3958649.	5996223.	1873.872
AV	-7040.	3109.	2.031	72166.	-68712.	-5321.	8059.	2.519
MONTHLY SUMMARY (NOV)								
MN	-368294.	0.	0.000	0.	-387286.	-407358.	0.	0.000
MX	0.	0.	6.295	517420.	0.	0.	0.	7.808
SM	-27144216.	0.	1510.704	57130564.	-92948688.	-26321932.	0.	1873.872
AV	-37700.	0.	2.098	79626.	-129095.	-36558.	0.	2.603
MONTHLY SUMMARY (DEC)								
MN	-401741.	0.	0.000	0.	-387286.	-474965.	0.	0.000
MX	0.	0.	6.295	213459.	0.	0.	0.	7.808
SM	-53031920.	0.	1586.239	52881272.	-97596120.	-55645948.	0.	1967.566
AV	-71279.	0.	2.132	71077.	-131178.	-74793.	0.	2.645
YEARLY SUMMARY								
MN	-402798.	0.	0.000	0.	-387286.	-499259.	0.	0.000
MX	0.	321078.	6.295	517420.	0.	0.	412239.	7.808
SM	-242532400.	148719216.	19034.869	730562816.	-632051072.	-240243808.	212599456.	23610.789
AV	-27686.	16977.	2.173	83398.	-72152.	-27425.	24269.	2.695

MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)
MONTHLY SUMMARY (JAN)								
MN	0.	-480388.	-572577.	0.	0.000	0.	-550935.	-304657.
MX	258907.	0.	0.	0.	8.954	295777.	0.	0.
SM	65244644.	-121057904.	-72415736.	0.	2256.509	74535904.	-138835664.	-44177240.
AV	87694.	-162712.	-97333.	0.	3.033	100183.	-186607.	-59378.
MONTHLY SUMMARY (FEB)								
MN	0.	-480388.	-569074.	0.	0.000	0.	-550935.	-302854.
MX	258907.	0.	0.	0.	8.954	295777.	0.	0.
SM	59030868.	-109528576.	-55977768.	0.	2041.603	67437248.	-125613216.	-34771208.
AV	87844.	-162989.	-83300.	0.	3.038	100353.	-186924.	-51743.
MONTHLY SUMMARY (MAR)								
MN	0.	-480388.	-523020.	0.	0.000	0.	-550935.	-295817.
MX	307474.	0.	0.	0.	8.954	355503.	0.	0.
SM	71842672.	-132587232.	-37658680.	0.	2471.414	82085776.	-152058096.	-25553426.
AV	96563.	-178209.	-50617.	0.	3.322	110330.	-204379.	-34346.
MONTHLY SUMMARY (APR)								
MN	0.	-480388.	-359698.	0.	0.000	0.	-550935.	-211891.
MX	463268.	0.	0.	0.	8.954	528876.	0.	0.
SM	69542208.	-121057904.	-13834005.	0.	2256.509	79412704.	-138835664.	-10570656.
AV	36586.	-168136.	-19214.	0.	3.134	110295.	-192827.	-14681.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	397962.	0.	0.	219986.	8.954	458435.	0.	0.
SM	74049920.	0.	0.	14480117.	2256.509	84697280.	0.	0.
AV	39529.	0.	0.	19463.	3.033	113840.	0.	0.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	453605.	0.	0.	423799.	8.954	510150.	0.	0.
SM	92180736.	0.	0.	50220472.	2363.961	105303632.	0.	0.
AV	128029.	0.	0.	69751.	3.283	146255.	0.	0.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	461372.	0.	0.	467239.	8.954	532480.	0.	0.
SM	88303376.	0.	0.	61732904.	2149.056	100801256.	0.	0.
AV	118687.	0.	0.	82974.	2.889	135486.	0.	0.

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	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	433910.	0.	0.	436683.	8.954	492226.	0.	0.
SM	100244760.	0.	0.	65061972.	2471.414	114549432.	0.	0.
AV	134738.	0.	0.	87449.	3.322	153964.	0.	0.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	422170.	0.	0.	360442.	8.954	485696.	0.	0.
SM	80567008.	0.	0.	35012216.	2256.509	91940408.	0.	0.
AV	111899.	0.	0.	48628.	3.134	127695.	0.	0.
MONTHLY SUMMARY (OCT)								
MN	0.	-480388.	-303866.	0.	0.000	0.	-550935.	-188156.
MX	345176.	0.	0.	196223.	8.954	393557.	0.	0.
SM	67092104.	-63411268.	-5134238.	6314585.	2149.056	76604008.	-72723424.	-4153298.
AV	90178.	-85230.	-6901.	8487.	2.889	102962.	-97747.	-5582.
MONTHLY SUMMARY (NOV)								
MN	0.	-480388.	-459349.	0.	0.000	0.	-550935.	-256571.
MX	657976.	0.	0.	0.	8.954	751710.	0.	0.
SM	71460808.	-115293240.	-31114950.	0.	2149.056	81529112.	-132224440.	-20334640.
AV	99251.	-160130.	-43215.	0.	2.985	113235.	-183645.	-28243.
MONTHLY SUMMARY (DEC)								
MN	0.	-480388.	-551986.	0.	0.000	0.	-550935.	-305109.
MX	265247.	0.	0.	0.	8.954	303479.	0.	0.
SM	65259484.	-121057904.	-64614116.	0.	2256.509	74552416.	-138835664.	-39660300.
AV	87714.	-162712.	-86847.	0.	3.033	100205.	-186607.	-53307.
YEARLY SUMMARY								
MN	0.	-480388.	-572577.	0.	0.000	0.	-550935.	-305109.
MX	657976.	0.	0.	467239.	8.954	751710.	0.	0.
SM	904818560.	-783994048.	-280749504.	232822272.	27078.102	1033449216.	-899126144.	-179220768.
AV	103290.	-89497.	-32049.	26578.	3.091	117974.	-102640.	-20459.



MMDDHH	AHU-4	AHU-4	AHU-4	AHU-4
	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- ( 6)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	155664.	0.
SM	0.	1200.981	39227420.	-73892512.
AV	0.	1.614	52725.	-99318.
MONTHLY SUMMARY (FEB)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	155664.	0.
SM	0.	1086.602	35491476.	-66855132.
AV	0.	1.617	52815.	-99487.
MONTHLY SUMMARY (MAR)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	178200.	0.
SM	0.	1315.360	43107344.	-80929888.
AV	0.	1.768	57940.	-108777.
MONTHLY SUMMARY (APR)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	270729.	0.
SM	0.	1200.981	41262624.	-73892512.
AV	0.	1.668	57309.	-102628.
MONTHLY SUMMARY (MAY)				
MN	0.	0.000	0.	0.
MX	111164.	4.766	249625.	0.
SM	5051088.	1200.981	44516536.	0.
AV	8133.	1.614	59834.	0.
MONTHLY SUMMARY (JUN)				
MN	0.	0.000	0.	0.
MX	224536.	4.766	279107.	0.
SM	24459034.	1258.171	55751992.	0.
AV	33971.	1.747	77433.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	0.000	0.	0.
MX	247132.	4.766	280402.	0.
SM	31606610.	1143.792	53279324.	0.
AV	42482.	1.537	71612.	0.

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	AHU-4	AHU-4	AHU-4	AHU-4
	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- ( 6)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (AUG)				
MN	0.	0.000	0.	0.
MX	229142.	4.766	268668.	0.
SM	32781380.	1315.360	60649580.	0.
AV	44061.	1.768	81518.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.000	0.	0.
MX	191917.	4.766	262547.	0.
SM	16552510.	1200.981	48330232.	0.
AV	22990.	1.668	67125.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.000	0.	-293224.
MX	90081.	4.766	208366.	0.
SM	2037468.	1143.792	40165216.	-38705596.
AV	2739.	1.537	53986.	-52024.
MONTHLY SUMMARY (NOV)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	394086.	0.
SM	0.	1143.792	42770988.	-70373824.
AV	0.	1.589	59404.	-97741.
MONTHLY SUMMARY (DEC)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	160615.	0.
SM	0.	1200.981	39236820.	-73892512.
AV	0.	1.614	52738.	-99318.
YEARLY SUMMARY				
MN	0.	0.000	0.	-293224.
MX	247132.	4.766	394086.	0.
SM	113488096.	14411.776	543789568.	-478541984.
AV	12955.	1.645	62076.	-54628.

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WEATHER FILE- BALTIMORE, MD

[illegible]

MONTH	S I T E   E N E R G Y												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	250.2	0.0	120.3 35.2E	0.0	0.0	0.0	0.0 0.0E	390.8	24.6 7.2E	0.0	390.8	511.1	752.0
FEB	198.6	0.0	107.1 31.4E	0.0	0.0	0.0	0.0 0.0E	312.3	20.6 6.0E	0.0	312.3	419.5	634.1
MAR	141.4	0.0	121.7 35.6E	0.0	0.0	0.0	0.0 0.0E	228.2	18.0 5.3E	0.0	228.2	349.8	593.5
APR	60.0	0.0	106.4 31.2E	0.0	0.0	0.0	0.0 0.0E	97.8	11.1 3.3E	0.0	97.8	204.2	417.4
MAY	0.0	63.2	199.3 58.4E	0.0	0.0	0.0	103.6 30.3E	0.0	0.0 0.0E	0.0	0.0	199.3	598.4
JUN	0.0	173.3	282.9 82.8E	0.0	0.0	0.0	183.6 53.8E	0.0	0.0 0.0E	0.0	0.0	282.9	849.5
JUL	0.0	212.9	285.7 83.7E	0.0	0.0	0.0	194.0 56.8E	0.0	0.0 0.0E	0.0	0.0	285.7	857.9
AUG	0.0	221.5	311.0 91.1E	0.0	0.0	0.0	207.3 60.7E	0.0	0.0 0.0E	0.0	0.0	311.0	934.0
SEP	0.0	126.6	244.3 71.6E	0.0	0.0	0.0	149.0 43.6E	0.0	0.0 0.0E	0.0	0.0	244.3	733.7
OCT	24.1	38.2	173.0 50.7E	0.0	0.0	0.0	76.1 22.3E	39.4	5.3 1.5E	0.0	39.4	212.4	559.0
NOV	115.5	0.0	107.0 31.3E	0.0	0.0	0.0	0.0 0.0E	186.9	15.7 4.6E	0.0	186.9	293.9	508.2
DEC	223.9	0.0	119.4 35.0E	0.0	0.0	0.0	0.0 0.0E	355.2	23.7 6.9E	0.0	355.2	474.6	713.7
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	1013.7	835.6	2178.0 637.9E	0.0	0.0	0.0	913.6 267.6E	1610.6	118.9 34.8E	0.0	1610.6	3788.6	8151.2

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

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MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	120.271	390.785
JAN	PEAK (KBTU)	467.634	3058.255
	DY/HR	31/17	17/ 7
	TOTAL (MBTU)	107.136	312.336
FEB	PEAK (KBTU)	467.634	2954.196
	DY/HR	28/ 7	14/ 7
	TOTAL (MBTU)	121.664	228.151
MAR	PEAK (KBTU)	467.634	2435.478
	DY/HR	28/ 7	7/ 7
	TOTAL (MBTU)	106.436	97.772
APR	PEAK (KBTU)	467.634	1828.217
	DY/HR	11/ 7	8/ 7
	TOTAL (MBTU)	199.254	0.000
MAY	PEAK (KBTU)	1005.411	0.000
	DY/HR	6/17	31/ 1
	TOTAL (MBTU)	282.884	0.000
JUN	PEAK (KBTU)	1120.914	0.000
	DY/HR	27/15	30/ 1
	TOTAL (MBTU)	285.672	0.000
JUL	PEAK (KBTU)	1120.855	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	311.020	0.000
AUG	PEAK (KBTU)	1118.544	0.000
	DY/HR	18/15	31/ 1
	TOTAL (MBTU)	244.309	0.000
SEP	PEAK (KBTU)	1116.381	0.000
	DY/HR	1/16	30/ 1
	TOTAL (MBTU)	173.032	39.414
OCT	PEAK (KBTU)	978.911	1665.025
	DY/HR	13/16	24/ 7
	TOTAL (MBTU)	106.991	186.907
NOV	PEAK (KBTU)	467.634	2199.719
	DY/HR	28/11	25/ 8
	TOTAL (MBTU)	119.378	355.203
DEC	PEAK (KBTU)	467.634	2520.886
	DY/HR	28/ 7	27/ 7
	ONE YEAR	2178.047	1610.568
	USE/PEAK	1120.914	3058.255

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 7:54:59 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	1013.7	100.0
-----	-----	-----
LOAD SATISFIED	1013.7	100.0
TOTAL LOAD ON PLANT	1013.7	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	835.6	100.0
-----	-----	-----
LOAD SATISFIED	835.6	100.0
TOTAL LOAD ON PLANT	835.6	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	2178.0	100.0
-----	-----	-----
LOAD SATISFIED	2178.0	100.0
TOTAL LOAD ON PLANT	2178.0	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE 'MCS STUDY

DOB-2.1D 6/13/1996 7:54:59 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	1013.7	1013.7	0.000	0.000	0
COOLING LOADS	835.6	835.6	12.472	0.420	122
ELECTRICAL LOADS	2178.0	2178.0	0.000	0.000	0

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 6/13/1996 7:54:59 PDL RUN 1  
 BUILDING 4411 - NEW CONDITIONS  
 WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
			DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.054	2.221	1	17	7	4.000	4728							
HERM-REC-CHLR	0.172	1.174	7	18	8	1.100	4416							



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 7:54:59 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

HW-BOILER	189.8		
NOMINAL SIZE (MBTU)		4.000	
NUMBER INSTALLED		2	
FIRST COST (K\$)	179.6	179.6	
ANNUAL COST (K\$)	4.6	4.6	
CYCLICAL COST (K\$)	5.6	5.6	
-----TOTAL----- (K\$)		189.8	
HERM-REC-CHLR	36.5		
NOMINAL SIZE (MBTU)		1.100	
NUMBER INSTALLED		1	
FIRST COST (K\$)	24.2	24.2	
ANNUAL COST (K\$)	2.3	2.3	
CYCLICAL COST (K\$)	10.1	10.1	
-----TOTAL----- (K\$)		36.5	
EQUIPMENT TOTAL	226.3		

ENTECH ENGINEERING                      EZDOE - ELITE SOFTWARE DEVELOPMENT INC                      DOE-2.1D    6/13/1996                      7:54:59    PDL RUN 1  
 READING, PA                      19603                      FT. GEORGE G. MEADE UMCS STUDY                      BUILDING 4411 - NEW CONDITIONS  
 REPORT- BEPS    ESTIMATED BUILDING ENERGY PERFORMANCE                      WEATHER FILE- BALTIMORE, MD

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ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	80.23	1610.55
SPACE COOL	842.44	0.00
HVAC AUX	397.09	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	667.59	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	190.74	0.00
	-----	-----
TOTAL	2178.09	1610.55

TOTAL SITE ENERGY	3788.61 MBTU	114.0 KBTU/SQFT-YR GROSS-AREA	114.0 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	8151.25 MBTU	245.3 KBTU/SQFT-YR GROSS-AREA	245.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.2  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 1.4

NOTE    ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND.    ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR NOM CAP RUNNING BTU/HR
	---- ( 1 )	---- ( 3 )	---- ( 4 )	---- ( 1 )	---- ( 3 )	---- ( 7 )
MONTHLY SUMMARY (JAN)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	2221308.	88000.	3058265.	0.	0.	0.
SM	250176944.	18504650.	390783008.	0.	0.	0.
AV	336259.	24872.	525246.	0.	0.	0.
MONTHLY SUMMARY (FEB)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	2129863.	88000.	2954196.	0.	0.	0.
SM	198617008.	15088269.	312333216.	0.	0.	0.
AV	295561.	22453.	464782.	0.	0.	0.
MONTHLY SUMMARY (MAR)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	1679385.	38000.	2435478.	0.	0.	0.
SM	141382352.	11872891.	228149040.	0.	0.	0.
AV	190030.	15958.	306652.	0.	0.	0.
MONTHLY SUMMARY (APR)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	1162773.	38000.	1828217.	0.	0.	0.
SM	59960400.	5234311.	97772424.	0.	0.	0.
AV	83278.	7270.	135795.	0.	0.	0.
MONTHLY SUMMARY (MAY)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	0.	0.	0.	690302.	617853.	1100000.
SM	0.	0.	0.	63169120.	31591964.	818400000.
AV	0.	0.	0.	84905.	123108.	1100000.
MONTHLY SUMMARY (JUN)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	0.	0.	0.	1147748.	733357.	1100000.
SM	0.	0.	0.	173293552.	171965344.	792000000.
AV	0.	0.	0.	240685.	238841.	1100000.
MONTHLY SUMMARY (JUL)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	0.	0.	0.	1171596.	733293.	1100000.
SM	0.	0.	0.	212880704.	182022960.	818400000.
AV	0.	0.	0.	286130.	244655.	1100000.

	HW-BOILE R LOAD BTU/HR ---- ( 1 )	HW-BOILE R ELECTRIC USE BTU/HR ---- ( 3 )	HW-BOILE R FUEL USE BTU/HR ---- ( 4 )	HERM-REC -CHLR LOAD BTU/HR ---- ( 1 )	HERM-REC -CHLR ELECTRIC USE BTU/HR ---- ( 3 )	HERM-REC -CHLR NOM CAP RUNNING BTU/HR ---- ( 7 )
MONTHLY SUMMARY (AUG)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	0.	0.	0.	1134693.	730987.	1100000.
SM	0.	0.	0.	221450800.	195335056.	818400000.
AV	0.	0.	0.	297649.	262547.	1100000.
MONTHLY SUMMARY (SEP)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	0.	0.	0.	1125296.	728824.	1100000.
SM	0.	0.	0.	126559640.	137403008.	792000000.
AV	0.	0.	0.	175777.	190838.	1100000.
MONTHLY SUMMARY (OCT)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	1025830.	88000.	1665025.	597904.	591354.	1100000.
SM	24129002.	2120178.	39414348.	38216732.	54119148.	818400000.
AV	32431.	2850.	52976.	51367.	86182.	1100000.
MONTHLY SUMMARY (NOV)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	1477478.	88000.	2199719.	0.	0.	0.
SM	115500696.	9801285.	186905920.	0.	0.	0.
AV	160418.	13613.	259592.	0.	0.	0.
MONTHLY SUMMARY (DEC)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	1752960.	88000.	2520886.	0.	0.	0.
SM	223895312.	17611436.	355200192.	0.	0.	0.
AV	300935.	21671.	477420.	0.	0.	0.
YEARLY SUMMARY						
MN	0.	0.	0.	0.	0.	0.
MX	2221308.	88000.	3058265.	1173596.	733357.	1100000.
SM	1013661696.	80233024.	1610558208.	835570496.	842437504.	4857600000.
AV	115715.	9159.	183854.	95385.	96169.	554521.

ENTECH ENGINEERING 19603 E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/13/1996 9: 0:20 SDL RUN 1  
READING, PA FT. GEORGE G. MEADE UMCS STUDY BUILDING 4411 - NEW CONDITIONS  
SH-1 - HOURLY-REPORT PAGE 1- 1

MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- ( 5 )	---- ( 6 )	---- (49)	---- (70)	---- (78)	---- ( 5 )	---- ( 6 )	---- (49)
MONTHLY SUMMARY (JAN)								
MN	-402798.	0.	0.000	0.	-387286.	-499259.	0.	0.000
MX	0.	0.	6.295	209824.	0.	0.	0.	7.808
SM	-59015640.	0.	1586.239	52875556.	-97596120.	-62584944.	0.	1967.566
AV	-79322.	0.	2.132	71069.	-131178.	-84120.	0.	2.645
MONTHLY SUMMARY (FEB)								
MN	-399990.	0.	0.000	0.	-387286.	-496212.	0.	0.000
MX	0.	0.	6.295	209824.	0.	0.	0.	7.808
SM	-48701132.	0.	1435.169	47839788.	-88301256.	-48930920.	0.	1780.178
AV	-72472.	0.	2.136	71190.	-131401.	-72814.	0.	2.649
MONTHLY SUMMARY (MAR)								
MN	-391833.	0.	0.000	0.	-387286.	-454014.	0.	0.000
MX	0.	0.	6.295	230420.	0.	0.	0.	7.808
SM	-35330188.	0.	1737.309	58043904.	-106890984.	-31902280.	0.	2154.953
AV	-47487.	0.	2.335	78016.	-143671.	-42879.	0.	2.896
MONTHLY SUMMARY (APR)								
MN	-312783.	0.	0.000	0.	-387286.	-306333.	0.	0.000
MX	0.	0.	6.295	349134.	0.	0.	0.	7.908
SM	-14071661.	0.	1586.239	55092520.	-97596120.	-10899122.	0.	1967.566
AV	-19544.	0.	2.203	76517.	-135550.	-15138.	0.	2.733
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	136146.	6.295	333317.	0.	0.	194034.	7.808
SM	0.	7458229.	1586.239	59458168.	0.	0.	13624313.	1967.566
AV	0.	10025.	2.132	79917.	0.	0.	18312.	2.645
MONTHLY SUMMARY (JUN)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	286026.	6.295	390583.	0.	0.	374271.	7.908
SM	0.	31959684.	1661.774	74974208.	0.	0.	45794332.	2061.259
AV	0.	44388.	2.308	104131.	0.	0.	63603.	2.863
MONTHLY SUMMARY (JUL)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	321078.	6.295	370146.	0.	0.	412239.	7.808
SM	0.	42040324.	1510.704	71828808.	0.	0.	55945496.	1873.872
AV	0.	56506.	2.031	96544.	0.	0.	75196.	2.519

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	295870.	6.295	357443.	0.	0.	385910.	7.808
SM	0.	43150440.	1737.309	81486536.	0.	0.	58901660.	2154.953
AV	0.	57998.	2.335	109525.	0.	0.	79169.	2.896
MONTHLY SUMMARY (SEP)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	252605.	6.295	352605.	0.	0.	321369.	7.808
SM	0.	21797450.	1586.239	65059808.	0.	0.	32337430.	1967.566
AV	0.	30274.	2.203	90361.	0.	0.	44913.	2.733
MONTHLY SUMMARY (OCT)								
MN	-260671.	0.	0.000	0.	-387286.	-259509.	0.	0.000
MX	0.	108775.	6.295	280685.	0.	0.	173853.	7.808
SM	-5237630.	2313090.	1510.704	53691632.	-51121784.	-3958649.	5996223.	1873.872
AV	-7040.	3109.	2.031	72166.	-68712.	-5321.	8059.	2.519
MONTHLY SUMMARY (NOV)								
MN	-368294.	0.	0.000	0.	-387286.	-407358.	0.	0.000
MX	0.	0.	6.295	517420.	0.	0.	0.	7.808
SM	-27144216.	0.	1510.704	57330564.	-92948688.	-26321932.	0.	1873.872
AV	-37700.	0.	2.098	79626.	-129095.	-36558.	0.	2.603
MONTHLY SUMMARY (DEC)								
MN	-401741.	0.	0.000	0.	-387286.	-474965.	0.	0.000
MX	0.	0.	6.295	213459.	0.	0.	0.	7.808
SM	-53031920.	0.	1586.239	52881272.	-97596120.	-55645948.	0.	1967.566
AV	-71279.	0.	2.132	71077.	-131178.	-74793.	0.	2.645
YEARLY SUMMARY								
MN	-402798.	0.	0.000	0.	-387286.	-499259.	0.	0.000
MX	0.	321078.	6.295	517420.	0.	0.	412239.	7.808
SM	-242532400.	148719216.	19034.869	730562816.	-632051072.	-240243808.	212599456.	23610.789
AV	-27686.	16977.	2.173	83398.	-72152.	-27425.	24269.	2.695

MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)
MONTHLY SUMMARY (JAN)								
MN	0.	-480388.	-572577.	0.	0.000	0.	-550935.	-304657.
MX	258907.	0.	0.	0.	8.954	295777.	0.	0.
SM	65244644.	-121057904.	-72415736.	0.	2256.509	74535904.	-138835664.	-44177240.
AV	87694.	-162712.	-97333.	0.	3.033	100183.	-186607.	-59378.
MONTHLY SUMMARY (FEB)								
MN	0.	-480388.	-569074.	0.	0.000	0.	-550935.	-302854.
MX	258907.	0.	0.	0.	8.954	295777.	0.	0.
SM	59030868.	-109528576.	-55977768.	0.	2041.603	67437248.	-125613216.	-34771208.
AV	87844.	-162989.	-83300.	0.	3.038	100353.	-186924.	-51743.
MONTHLY SUMMARY (MAR)								
MN	0.	-480388.	-523020.	0.	0.000	0.	-550935.	-295817.
MX	307474.	0.	0.	0.	8.954	355503.	0.	0.
SM	71842672.	-132587232.	-37658680.	0.	2471.414	82085776.	-152058096.	-25553426.
AV	96563.	-178209.	-50617.	0.	3.322	110330.	-204379.	-34346.
MONTHLY SUMMARY (APR)								
MN	0.	-480388.	-359698.	0.	0.000	0.	-550935.	-211891.
MX	463268.	0.	0.	0.	8.954	528876.	0.	0.
SM	69542208.	-121057904.	-13834005.	0.	2256.509	79412704.	-138835664.	-10570656.
AV	96586.	-168136.	-19214.	0.	3.134	110295.	-192827.	-14681.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	397962.	0.	0.	219986.	8.954	458435.	0.	0.
SM	74049920.	0.	0.	14480117.	2256.509	84697230.	0.	0.
AV	99529.	0.	0.	19463.	3.033	113840.	0.	0.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	453605.	0.	0.	423799.	8.954	510150.	0.	0.
SM	92180736.	0.	0.	50220472.	2363.961	105303632.	0.	0.
AV	128029.	0.	0.	69751.	3.283	146255.	0.	0.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	461372.	0.	0.	467239.	8.954	532480.	0.	0.
SM	88303376.	0.	0.	61732904.	2149.056	100801256.	0.	0.
AV	118687.	0.	0.	82974.	2.889	135486.	0.	0.

	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	433910.	0.	0.	436683.	8.954	492226.	0.	0.
SM	100244760.	0.	0.	65061972.	2471.414	114549432.	0.	0.
AV	134738.	0.	0.	87449.	3.322	153964.	0.	0.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	422170.	0.	0.	360442.	8.954	485696.	0.	0.
SM	80567008.	0.	0.	35012216.	2256.509	91940408.	0.	0.
AV	111899.	0.	0.	48628.	3.134	127695.	0.	0.
MONTHLY SUMMARY (OCT)								
MN	0.	-480388.	-303866.	0.	0.000	0.	-550935.	-188156.
MX	345176.	0.	0.	196223.	8.954	393557.	0.	0.
SM	67092104.	-63411268.	-5134238.	6314585.	2149.056	76604008.	-72723424.	-4153298.
AV	90178.	-85230.	-6901.	8487.	2.889	102962.	-97747.	-5582.
MONTHLY SUMMARY (NOV)								
MN	0.	-480388.	-459349.	0.	0.000	0.	-550935.	-256571.
MX	657976.	0.	0.	0.	8.954	751710.	0.	0.
SM	71460808.	-115293240.	-31114950.	0.	2149.056	81529112.	-132224440.	-20334640.
AV	99251.	-160130.	-43215.	0.	2.985	113235.	-183645.	-28243.
MONTHLY SUMMARY (DEC)								
MN	0.	-480388.	-551986.	0.	0.000	0.	-550935.	-305109.
MX	265247.	0.	0.	0.	8.954	303479.	0.	0.
SM	65259484.	-121057904.	-64614116.	0.	2256.509	74552416.	-138835664.	-39660300.
AV	87714.	-162712.	-86847.	0.	3.033	100205.	-186607.	-53307.
YEARLY SUMMARY								
MN	0.	-480388.	-572577.	0.	0.000	0.	-550935.	-305109.
MX	557976.	0.	0.	467239.	8.954	751710.	0.	0.
SM	904818560.	-783994048.	-280749504.	232822272.	27078.102	1033449216.	-899126144.	-179220768.
AV	103290.	-39497.	-32049.	26578.	3.091	117974.	-102640.	-20459.



MMDDHH	AHU-4	AHU-4	AHU-4	AHU-4
	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- ( 6)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	155664.	0.
SM	0.	1200.981	39227420.	-73892512.
AV	0.	1.614	52725.	-99318.
MONTHLY SUMMARY (FEB)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	155664.	0.
SM	0.	1086.602	35491476.	-66855132.
AV	0.	1.617	52815.	-99487.
MONTHLY SUMMARY (MAR)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	178200.	0.
SM	0.	1315.360	43107344.	-80929888.
AV	0.	1.768	57940.	-108777.
MONTHLY SUMMARY (APR)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	270729.	0.
SM	0.	1200.981	41262624.	-73892512.
AV	0.	1.668	57309.	-102628.
MONTHLY SUMMARY (MAY)				
MN	0.	0.000	0.	0.
MX	111164.	4.766	249625.	0.
SM	6051088.	1200.981	44516536.	0.
AV	8133.	1.614	59834.	0.
MONTHLY SUMMARY (JUN)				
MN	0.	0.000	0.	0.
MX	224536.	4.766	279107.	0.
SM	24459034.	1258.171	55751992.	0.
AV	33971.	1.747	77433.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	0.000	0.	0.
MX	247132.	4.766	280402.	0.
SM	31606610.	1143.792	53279324.	0.
AV	42482.	1.537	71612.	0.

	AHU-4	AHU-4	AHU-4	AHU-4
	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- ( 6)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (AUG)				
MN	0.	0.000	0.	0.
MX	229142.	4.766	268668.	0.
SM	32781380.	1315.360	60649580.	0.
AV	44061.	1.768	81518.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.000	0.	0.
MX	191917.	4.766	262547.	0.
SM	16552510.	1200.981	48330232.	0.
AV	22990.	1.668	67125.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.000	0.	-293224.
MX	90081.	4.766	208366.	0.
SM	2037468.	1143.792	40165216.	-38705596.
AV	2739.	1.537	53986.	-52024.
MONTHLY SUMMARY (NOV)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	394086.	0.
SM	0.	1143.792	42770988.	-70373824.
AV	0.	1.589	59404.	-97741.
MONTHLY SUMMARY (DEC)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	160615.	0.
SM	0.	1200.981	39236820.	-73892512.
AV	0.	1.614	52738.	-99318.
YEARLY SUMMARY				
MN	0.	0.000	0.	-293224.
MX	247132.	4.766	394086.	0.
SM	113488096.	14411.776	543789568.	-478541984.
AV	12955.	1.645	62076.	-54628.

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BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

[illegible]

MONTH	S I T E E N E R G Y												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	250.2	0.0	120.3 35.2E	0.0	0.0	0.0	0.0 0.0E	390.8	24.6 7.2E	0.0	390.8	511.1	752.0
FEB	198.6	0.0	107.1 31.4E	0.0	0.0	0.0	0.0 0.0E	312.3	20.6 6.0E	0.0	312.3	419.5	634.1
MAR	141.4	0.0	121.7 35.6E	0.0	0.0	0.0	0.0 0.0E	228.2	18.0 5.3E	0.0	228.2	349.8	593.5
APR	60.0	0.0	106.4 31.2E	0.0	0.0	0.0	0.0 0.0E	97.8	11.1 3.3E	0.0	97.8	204.2	417.4
MAY	0.0	63.2	199.3 58.4E	0.0	0.0	0.0	103.6 30.3E	0.0	0.0 0.0E	0.0	0.0	199.3	598.4
JUN	0.0	173.3	282.9 82.8E	0.0	0.0	0.0	183.6 53.8E	0.0	0.0 0.0E	0.0	0.0	282.9	849.5
JUL	0.0	212.9	285.7 83.7E	0.0	0.0	0.0	194.0 56.3E	0.0	0.0 0.0E	0.0	0.0	285.7	857.9
AUG	0.0	221.5	311.0 91.1E	0.0	0.0	0.0	207.3 60.7E	0.0	0.0 0.0E	0.0	0.0	311.0	934.0
SEP	0.0	126.6	244.3 71.6E	0.0	0.0	0.0	149.0 43.6E	0.0	0.0 0.0E	0.0	0.0	244.3	733.7
OCT	24.1	38.2	173.0 50.7E	0.0	0.0	0.0	76.1 22.3E	39.4	5.3 1.5E	0.0	39.4	212.4	559.0
NOV	115.5	0.0	107.0 31.3E	0.0	0.0	0.0	0.0 0.0E	186.9	15.7 4.6E	0.0	186.9	293.9	508.2
DEC	223.9	0.0	119.4 35.0E	0.0	0.0	0.0	0.0 0.0E	355.2	23.7 6.9E	0.0	355.2	474.6	713.7
	1013.7	835.6	2178.0 637.9E	0.0	0.0	0.0	913.6 267.6E	1610.6	118.9 34.8E	0.0	1610.6	3788.6	8151.2

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	120.271	390.785
JAN	PEAK (KBTU)	467.634	3058.265
	DY/HR	31/17	17/ 7
	TOTAL (MBTU)	107.136	312.336
FEB	PEAK (KBTU)	467.634	2954.196
	DY/HR	28/ 7	14/ 7
	TOTAL (MBTU)	121.664	228.151
MAR	PEAK (KBTU)	467.634	2435.478
	DY/HR	28/ 7	7/ 7
	TOTAL (MBTU)	106.436	97.772
APR	PEAK (KBTU)	467.634	1828.217
	DY/HR	11/ 7	8/ 7
	TOTAL (MBTU)	199.254	0.000
MAY	PEAK (KBTU)	1005.411	0.000
	DY/HR	6/17	31/ 1
	TOTAL (MBTU)	282.884	0.000
JUN	PEAK (KBTU)	1120.914	0.000
	DY/HR	27/15	30/ 1
	TOTAL (MBTU)	285.672	0.000
JUL	PEAK (KBTU)	1120.855	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	311.020	0.000
AUG	PEAK (KBTU)	1118.544	0.000
	DY/HR	18/15	31/ 1
	TOTAL (MBTU)	244.309	0.000
SEP	PEAK (KBTU)	1116.381	0.000
	DY/HR	1/16	30/ 1
	TOTAL (MBTU)	173.032	39.414
OCT	PEAK (KBTU)	978.911	1665.025
	DY/HR	13/16	24/ 7
	TOTAL (MBTU)	106.991	186.907
NOV	PEAK (KBTU)	467.634	2199.719
	DY/HR	28/11	25/ 8
	TOTAL (MBTU)	119.378	355.203
DEC	PEAK (KBTU)	467.634	2520.886
	DY/HR	28/ 7	27/ 7
	ONE YEAR	2178.047	1610.568
	USE/PEAK	1120.914	3058.265

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 6/13/1996 8: 0:20 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	1013.7	100.0
	-----	-----
LOAD SATISFIED	1013.7	100.0
TOTAL LOAD ON PLANT	1013.7	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	835.6	100.0
	-----	-----
LOAD SATISFIED	835.6	100.0
TOTAL LOAD ON PLANT	835.6	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	2178.0	100.0
	-----	-----
LOAD SATISFIED	2178.0	100.0
TOTAL LOAD ON PLANT	2178.0	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 6/13/1996 8: 0:20 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	1013.7	1013.7	0.000	0.000	0
COOLING LOADS	835.6	835.6	12.472	0.420	122
ELECTRICAL LOADS	2178.0	2178.0	0.000	0.000	0

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 6/13/1996 8: 0:20 PDL RUN 1  
 BUILDING 4411 - NEW CONDITIONS  
 WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG	MAX	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
	OPER RATIO	LOAD (MBTU)	DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.054	2.221	1 17	7	4.000	4728						
HEM-REC-CHLR	0.172	1.174	7 18	8	1.100	4416						



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-1 EQUIPMENT LIFE CYCLE COSTS

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 8: 0:20 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

E Q U I P M E N T T O T A L S

HW-BOILER	189.8		
NOMINAL SIZE (MBTU)		4.000	
NUMBER INSTALLED		2	
FIRST COST (K\$)	179.6	179.6	
ANNUAL COST (K\$)	4.6	4.6	
CYCLICAL COST (K\$)	5.6	5.6	
-----TOTAL----- (K\$)		189.8	
HERM-REC-CHLR	36.5		
NOMINAL SIZE (MBTU)		1.100	
NUMBER INSTALLED		1	
FIRST COST (K\$)	24.2	24.2	
ANNUAL COST (K\$)	2.3	2.3	
CYCLICAL COST (K\$)	10.1	10.1	
-----TOTAL----- (K\$)		36.5	
EQUIPMENT TOTAL	226.3		

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	80.23	1610.55
SPACE COOL	842.44	0.00
HVAC AUX	397.09	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	667.59	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	190.74	0.00
-----		
TOTAL	2178.09	1610.55

TOTAL SITE ENERGY	3788.61 MBTU	114.0 KBTU/SQFT-YR GROSS-AREA	114.0 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	8151.25 MBTU	245.3 KBTU/SQFT-YR GROSS-AREA	245.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.2  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 1.4

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HW-BOILE R LOAD BTU/HR ---- ( 1 )	HW-BOILE R ELECTRIC USE BTU/HR ---- ( 3 )	HW-BOILE R FUEL USE BTU/HR ---- ( 4 )	HERM-REC -CHLR LOAD BTU/HR ---- ( 1 )	HERM-REC -CHLR ELECTRIC USE BTU/HR ---- ( 3 )	HERM-REC -CHLR NOM CAP RUNNING BTU/HR ---- ( 7 )
MONTHLY SUMMARY (JAN)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	2221308.	88000.	3058265.	0.	0.	0.
SM	250176944.	18504650.	390783008.	0.	0.	0.
AV	336259.	24872.	525246.	0.	0.	0.
MONTHLY SUMMARY (FEB)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	2129863.	88000.	2954196.	0.	0.	0.
SM	198617008.	15088269.	312333216.	0.	0.	0.
AV	295561.	22453.	464782.	0.	0.	0.
MONTHLY SUMMARY (MAR)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	1679385.	88000.	2435478.	0.	0.	0.
SM	141382352.	11872891.	228149040.	0.	0.	0.
AV	190030.	15958.	306652.	0.	0.	0.
MONTHLY SUMMARY (APR)						
MN	14701.	1294.	24024.	0.	0.	0.
MX	1162773.	88000.	1828217.	0.	0.	0.
SM	59960400.	5234311.	97772424.	0.	0.	0.
AV	83278.	7270.	135795.	0.	0.	0.
MONTHLY SUMMARY (MAY)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	0.	0.	0.	690302.	617853.	1100000.
SM	0.	0.	0.	63169120.	91591984.	818400000.
AV	0.	0.	0.	84905.	123108.	1100000.
MONTHLY SUMMARY (JUN)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	0.	0.	0.	1147748.	733357.	1100000.
SM	0.	0.	0.	173293552.	171965344.	792000000.
AV	0.	0.	0.	240685.	238841.	1100000.
MONTHLY SUMMARY (JUL)						
MN	0.	0.	0.	28972.	52302.	1100000.
MX	0.	0.	0.	1173596.	733298.	1100000.
SM	0.	0.	0.	212880704.	182022960.	818400000.
AV	0.	0.	0.	286130.	244655.	1100000.

HW-BOILE R LOAD BTU/HR ----( 1)	HW-BOILE R ELECTRIC USE BTU/HR ----( 3)	HW-BOILE R FUEL USE BTU/HR ----( 4)	HERM-REC -CHLR LOAD BTU/HR ----( 1)	HERM-REC -CHLR ELECTRIC USE BTU/HR ----( 3)	HERM-REC -CHLR NOM CAP RUNNING BTU/HR ----( 7)
MONTHLY SUMMARY (AUG)					
MN 0.	0.	0.	28972.	52302.	1100000.
MX 0.	0.	0.	1134693.	730987.	1100000.
SM 0.	0.	0.	221450800.	195335056.	818400000.
AV 0.	0.	0.	297649.	262547.	1100000.
MONTHLY SUMMARY (SEP)					
MN 0.	0.	0.	28972.	52302.	1100000.
MX 0.	0.	0.	1125296.	728824.	1100000.
SM 0.	0.	0.	126559640.	137403008.	792000000.
AV 0.	0.	0.	175777.	190838.	1100000.
MONTHLY SUMMARY (OCT)					
MN 0.	0.	0.	28972.	52302.	1100000.
MX 1025830.	88000.	1665025.	597904.	591354.	1100000.
SM 24129002.	2120178.	39414348.	38216732.	64119148.	818400000.
AV 32431.	2850.	52976.	51367.	86182.	1100000.
MONTHLY SUMMARY (NOV)					
MN 14701.	1294.	24024.	0.	0.	0.
MX 1477478.	88000.	2199719.	0.	0.	0.
SM 115500696.	9801285.	186905920.	0.	0.	0.
AV 160418.	13613.	259592.	0.	0.	0.
MONTHLY SUMMARY (DEC)					
MN 14701.	1294.	24024.	0.	0.	0.
MX 1752960.	88000.	2520886.	0.	0.	0.
SM 223895312.	17611436.	355200192.	0.	0.	0.
AV 300935.	23671.	477420.	0.	0.	0.
YEARLY SUMMARY					
MN 0.	0.	0.	0.	0.	0.
MX 2221308.	88000.	3058265.	1173596.	733357.	1100000.
SM 1013661696.	30233024.	1610558208.	835570496.	842437504.	4857600000.
AV 115715.	9159.	183854.	95385.	96169.	554521.

ENTECH ENGINEERING READING, PA 19603 SH-1 HOURLY-REPORT			EZDOS - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE UMCS STUDY			DOB-2.1D 6/13/1996 3: 6: 3 SDL RUN 1 BUILDING 4411 - NEW CONDITIONS			PAGE 1- 1
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	
	----( 5)	----( 6)	----(49)	----(70)	----(78)	----( 5)	----( 6)	----(49)	
MONTHLY SUMMARY (JAN)									
MN	-406697.	0.	0.000	0.	-387286.	-504685.	0.	0.000	
MX	0.	0.	6.295	292823.	0.	0.	0.	7.808	
SM	-44150900.	0.	1586.239	53094436.	-97596120.	-43183352.	0.	1967.566	
AV	-59343.	0.	2.132	71363.	-131178.	-58042.	0.	2.645	
MONTHLY SUMMARY (FEB)									
MN	-406611.	0.	0.000	0.	-387286.	-504442.	0.	0.000	
MX	0.	0.	6.295	227941.	0.	0.	0.	7.808	
SM	-36660284.	0.	1435.169	48079836.	-88301256.	-33663168.	0.	1780.178	
AV	-54554.	0.	2.136	71547.	-131401.	-50094.	0.	2.649	
MONTHLY SUMMARY (MAR)									
MN	-354899.	0.	0.000	0.	-387286.	-400541.	0.	0.000	
MX	0.	0.	6.295	286089.	0.	0.	0.	7.808	
SM	-24349440.	0.	1737.309	58855712.	-106890984.	-19104880.	0.	2154.953	
AV	-32728.	0.	2.335	79107.	-143671.	-25679.	0.	2.896	
MONTHLY SUMMARY (APR)									
MN	-286605.	0.	0.000	0.	-387286.	-232579.	0.	0.000	
MX	0.	0.	6.295	367257.	0.	0.	0.	7.808	
SM	-8675816.	0.	1586.239	56912784.	-97596120.	-5798812.	0.	1967.566	
AV	-12050.	0.	2.203	79046.	-135550.	-8054.	0.	2.733	
MONTHLY SUMMARY (MAY)									
MN	0.	0.	0.000	0.	0.	0.	0.	0.000	
MX	0.	113846.	6.295	334662.	0.	0.	174390.	7.808	
SM	0.	7629046.	1586.239	60017956.	0.	0.	14796900.	1967.566	
AV	0.	10254.	2.132	80669.	0.	0.	19888.	2.645	
MONTHLY SUMMARY (JUN)									
MN	0.	0.	0.000	0.	0.	0.	0.	0.000	
MX	0.	211699.	6.295	355107.	0.	0.	280649.	7.808	
SM	0.	27842368.	1661.774	70304880.	0.	0.	40541612.	2061.259	
AV	0.	38670.	2.308	97646.	0.	0.	56308.	2.863	
MONTHLY SUMMARY (JUL)									
MN	0.	0.	0.000	0.	0.	0.	0.	0.000	
MX	0.	231697.	6.295	312370.	0.	0.	307685.	7.808	
SM	0.	34361964.	1510.704	64716864.	0.	0.	46190472.	1873.872	
AV	0.	46185.	2.031	86985.	0.	0.	62084.	2.519	

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- ( 5 )	---- ( 6 )	---- (49)	---- (70)	---- (78)	---- ( 5 )	---- ( 6 )	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	223538.	6.295	384747.	0.	0.	293181.	7.808
SM	0.	35075348.	1737.309	74098160.	0.	0.	48665088.	2154.953
AV	0.	47144.	2.335	99594.	0.	0.	65410.	2.896
MONTHLY SUMMARY (SEP)								
MN	0.	0.	0.000	0.	0.	0.	0.	0.000
MX	0.	175879.	6.295	305369.	0.	0.	238295.	7.808
SM	0.	19477366.	1586.239	64185548.	0.	0.	29951984.	1967.566
AV	0.	27052.	2.203	89147.	0.	0.	41600.	2.733
MONTHLY SUMMARY (OCT)								
MN	-218146.	0.	0.000	0.	-387286.	-198894.	0.	0.000
MX	0.	96055.	6.295	311452.	0.	0.	155634.	7.808
SM	-3380772.	3049433.	1510.704	56091108.	-51121784.	-2083858.	7254829.	1873.872
AV	-4544.	4099.	2.031	75391.	-68712.	-2801.	9751.	2.519
MONTHLY SUMMARY (NOV)								
MN	-322434.	0.	0.000	0.	-387286.	-385073.	0.	0.000
MX	0.	0.	6.295	538989.	0.	0.	0.	7.808
SM	-19058886.	0.	1510.704	59268940.	-92948688.	-16589460.	0.	1873.872
AV	-26471.	0.	2.098	82318.	-129095.	-23041.	0.	2.603
MONTHLY SUMMARY (DEC)								
MN	-354803.	0.	0.000	0.	-387286.	-424321.	0.	0.000
MX	0.	0.	6.295	237466.	0.	0.	0.	7.808
SM	-39055336.	0.	1586.239	53106100.	-97596120.	-38046148.	0.	1967.566
AV	-52494.	0.	2.132	71379.	-131178.	-51137.	0.	2.645
YEARLY SUMMARY								
MN	-406697.	0.	0.000	0.	-387286.	-504685.	0.	0.000
MX	0.	231697.	6.295	538989.	0.	0.	307685.	7.808
SM	-175331424.	127435520.	19034.869	718732352.	-632051072.	-158469664.	187400896.	23610.789
AV	-20015.	14547.	2.173	82047.	-72152.	-18090.	21393.	2.695

MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)
MONTHLY SUMMARY (JAN)								
MN	0.	-480388.	-578800.	0.	0.000	0.	-550935.	-307946.
MX	776620.	0.	0.	0.	8.954	1081096.	0.	0.
SM	66553156.	-121057904.	-50079016.	0.	2256.509	76552152.	-138835664.	-32659280.
AV	89453.	-162712.	-67311.	0.	3.033	102893.	-186607.	-43897.
MONTHLY SUMMARY (FEB)								
MN	0.	-480388.	-578510.	0.	0.000	0.	-550935.	-307869.
MX	331906.	0.	0.	0.	8.954	401563.	0.	0.
SM	60097688.	-109528576.	-38456120.	0.	2041.603	69018992.	-125613216.	-25581350.
AV	89431.	-162989.	-57226.	0.	3.038	102707.	-186924.	-38067.
MONTHLY SUMMARY (MAR)								
MN	0.	-480388.	-462111.	0.	0.000	0.	-550935.	-267456.
MX	466124.	0.	0.	0.	8.954	589712.	0.	0.
SM	74631112.	-132587232.	-22913564.	0.	2471.414	86071640.	-152058096.	-17303406.
AV	100311.	-178209.	-30798.	0.	3.322	115688.	-204379.	-23257.
MONTHLY SUMMARY (APR)								
MN	0.	-480388.	-276980.	0.	0.000	0.	-550935.	-174686.
MX	505801.	0.	0.	0.	8.954	583771.	0.	0.
SM	74895456.	-121057904.	-7249838.	0.	2256.509	86381104.	-138835664.	-6209848.
AV	104021.	-168136.	-10069.	0.	3.134	119974.	-192827.	-8625.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	413912.	0.	0.	197365.	8.954	490825.	0.	0.
SM	76365440.	0.	0.	15658864.	2256.509	87563040.	0.	0.
AV	102642.	0.	0.	21047.	3.033	117692.	0.	0.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	469195.	0.	0.	313917.	8.954	556570.	0.	0.
SM	87028104.	0.	0.	44061112.	2363.961	99395576.	0.	0.
AV	120872.	0.	0.	61196.	3.283	138049.	0.	0.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	397919.	0.	0.	334079.	8.954	456816.	0.	0.
SM	80071984.	0.	0.	50543032.	2149.056	90965296.	0.	0.
AV	107624.	0.	0.	67934.	2.889	122265.	0.	0.

	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (70)	---- (78)	---- ( 5)	---- ( 6)	---- (49)	---- (70)	---- (78)	---- ( 5)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	461587.	0.	0.	329037.	8.954	694468.	0.	0.
SM	91524528.	0.	0.	53278688.	2471.414	104430968.	0.	0.
AV	123017.	0.	0.	71611.	3.322	140364.	0.	0.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	0.	0.	0.000	0.	0.	0.
MX	480889.	0.	0.	275775.	8.954	591749.	0.	0.
SM	80467360.	0.	0.	32195992.	2256.509	92360280.	0.	0.
AV	111760.	0.	0.	44717.	3.134	128278.	0.	0.
MONTHLY SUMMARY (OCT)								
MN	0.	-480388.	-233498.	0.	0.000	0.	-550935.	-154023.
MX	459724.	0.	0.	175971.	8.954	545907.	0.	0.
SM	71976168.	-63411268.	-2844316.	7656847.	2149.056	83123232.	-72723424.	-2595228.
AV	96742.	-85230.	-3823.	10291.	2.889	111725.	-97747.	-3488.
MONTHLY SUMMARY (NOV)								
MN	0.	-480388.	-432112.	0.	0.000	0.	-550935.	-237147.
MX	721337.	0.	0.	0.	8.954	340127.	0.	0.
SM	76428928.	-115293240.	-19802990.	0.	2149.056	88193720.	-132224440.	-14009325.
AV	106151.	-160130.	-27504.	0.	2.985	122491.	-183645.	-19457.
MONTHLY SUMMARY (DEC)								
MN	0.	-480388.	-498183.	0.	0.300	0.	-550935.	-282787.
MX	339827.	0.	0.	0.	8.954	425281.	0.	0.
SM	65968808.	-121057904.	-44451796.	0.	2256.509	75616472.	-138835664.	-29063630.
AV	98668.	-162712.	-59747.	0.	3.033	101635.	-186607.	-39064.
YEARLY SUMMARY								
MN	0.	-480388.	-578800.	0.	0.000	0.	-550935.	-307946.
MX	776620.	0.	0.	334079.	8.954	1081096.	0.	0.
SM	906008768.	-783994048.	-185797648.	203394544.	27078.102	1039672448.	-399126144.	-127422080.
AV	103426.	-89497.	-21210.	23219.	3.091	118684.	-102640.	-14546.



MMDDHH	AHU-4	AHU-4	AHU-4	AHU-4
	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- ( 6)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (JAN)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	751391.	0.
SM	0.	1200.981	40796724.	-73892512.
AV	0.	1.614	54834.	-99318.
MONTHLY SUMMARY (FEB)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	236072.	0.
SM	0.	1086.602	36599784.	-66855132.
AV	0.	1.617	54464.	-99487.
MONTHLY SUMMARY (MAR)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	374278.	0.
SM	0.	1315.360	45933120.	-80929888.
AV	0.	1.768	61738.	-108777.
MONTHLY SUMMARY (APR)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	358052.	0.
SM	0.	1200.981	45712848.	-73892512.
AV	0.	1.668	63490.	-102628.
MONTHLY SUMMARY (MAY)				
MN	0.	0.000	0.	0.
MX	100542.	4.766	334224.	0.
SM	6246523.	1200.981	46668648.	0.
AV	8396.	1.614	62727.	0.
MONTHLY SUMMARY (JUN)				
MN	0.	0.000	0.	0.
MX	166114.	4.766	335856.	0.
SM	21230076.	1258.171	53007532.	0.
AV	29486.	1.747	73622.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	0.000	0.	0.
MX	176533.	4.766	235639.	0.
SM	25789556.	1143.792	47840804.	0.
AV	34663.	1.537	64302.	0.

	AHU-4	AHU-4	AHU-4	AHU-4
	TOT CLG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR
	---- ( 6)	---- (49)	---- (70)	---- (78)
MONTHLY SUMMARY (AUG)				
MN	0.	0.000	0.	0.
MX	171903.	4.766	396167.	0.
SM	26616668.	1315.360	55357224.	0.
AV	35775.	1.768	74405.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.000	0.	0.
MX	145564.	4.766	370315.	0.
SM	14739209.	1200.981	50018172.	0.
AV	20471.	1.668	69470.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.000	0.	-293224.
MX	80761.	4.766	307317.	0.
SM	2771471.	1143.792	44808444.	-38705596.
AV	3725.	1.537	60226.	-52024.
MONTHLY SUMMARY (NOV)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	453351.	0.
SM	0.	1143.792	47193552.	-70373824.
AV	0.	1.589	65547.	-97741.
MONTHLY SUMMARY (DEC)				
MN	0.	0.000	0.	-293224.
MX	0.	4.766	260211.	0.
SM	0.	1200.981	40027096.	-73892512.
AV	0.	1.614	53800.	-99318.
YEARLY SUMMARY				
MN	0.	0.000	0.	-293224.
MX	176533.	4.766	751391.	0.
SM	97393496.	14411.776	553963904.	-478541984.
AV	11118.	1.645	63238.	-54628.

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BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

[illegible]

S I T E E N E R G Y													SOURCE
MONTH	2 TOTAL HEAT LOAD	3 TOTAL COOLING LOAD	4 TOTAL ELECTR LOAD	5 RCVRED ENERGY	6 WASTED RCVRLBL ENERGY	7 FUEL INPUT COOLING	8 ELEC INPUT COOLING	9 FUEL INPUT HEATING	10 SLEC INPUT HEATING	11 FUEL INPUT ELECT	12 TOTAL FUEL INPUT	13 TOTAL SITE ENERGY	14 TOTAL SOURCE ENERGY
JAN	180.3	0.0	115.5 33.3E	0.0	0.0	0.0	0.0 0.0E	286.7	19.8 5.8E	0.0	286.7	402.2	633.6
FEB	143.4	0.0	103.2 30.2E	0.0	0.0	0.0	0.0 0.0E	229.6	16.7 4.9E	0.0	229.6	332.8	539.5
MAR	93.6	0.0	117.2 34.3E	0.0	0.0	0.0	0.0 0.0E	151.9	13.5 4.0E	0.0	151.9	269.1	504.0
APR	37.5	0.0	103.9 30.4E	0.0	0.0	0.0	0.0 0.0E	61.3	8.6 2.5E	0.0	61.3	165.2	373.4
MAY	0.0	59.8	192.2 56.3E	0.0	0.0	0.0	96.6 28.3E	0.0	0.0 0.0E	0.0	0.0	192.2	577.3
JUN	0.0	148.6	269.3 78.9E	0.0	0.0	0.0	170.0 49.8E	0.0	0.0 0.0E	0.0	0.0	269.3	808.8
JUL	0.0	172.3	264.5 77.5E	0.0	0.0	0.0	172.8 50.5E	0.0	0.0 0.0E	0.0	0.0	264.5	794.3
AUG	0.0	179.1	291.3 85.3E	0.0	0.0	0.0	187.6 54.9E	0.0	0.0 0.0E	0.0	0.0	291.3	874.8
SEP	0.0	111.3	237.4 69.5E	0.0	0.0	0.0	142.1 41.6E	0.0	0.0 0.0E	0.0	0.0	237.4	712.9
OCT	16.0	36.2	165.1 48.3E	0.0	0.0	0.0	69.2 20.3E	26.2	4.3 1.2E	0.0	26.2	191.2	521.9
NOV	79.0	0.0	103.4 30.3E	0.0	0.0	0.0	0.0 0.0E	123.4	12.1 3.6E	0.0	128.4	231.9	439.1
DEC	160.5	0.0	114.6 33.6E	0.0	0.0	0.0	0.0 0.0E	253.7	18.9 5.5E	0.0	258.7	373.3	602.8
	710.4	707.3	2077.8 608.5E	0.0	0.0	0.0	838.2 245.5E	1142.8	94.0 27.5E	0.0	1142.8	3220.6	7382.4

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	115.505	286.729
JAN	PEAK (KBTU)	466.855	2816.991
	DY/HR	31/17	17/ 7
	TOTAL (MBTU)	103.207	229.561
FEB	PEAK (KBTU)	466.855	2697.603
	DY/HR	28/ 7	14/ 7
	TOTAL (MBTU)	117.247	151.895
MAR	PEAK (KBTU)	466.855	2224.134
	DY/HR	15/ 7	7/ 7
	TOTAL (MBTU)	103.943	61.299
APR	PEAK (KBTU)	463.105	1564.500
	DY/HR	11/ 7	11/ 7
	TOTAL (MBTU)	192.239	0.000
MAY	PEAK (KBTU)	982.124	0.000
	DY/HR	6/17	31/ 1
	TOTAL (MBTU)	269.317	0.000
JUN	PEAK (KBTU)	1091.754	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	264.504	0.000
JUL	PEAK (KBTU)	1113.855	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	291.318	0.000
AUG	PEAK (KBTU)	1100.939	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	237.395	0.000
SEP	PEAK (KBTU)	1064.885	0.000
	DY/HR	1/17	30/ 1
	TOTAL (MBTU)	165.079	26.166
OCT	PEAK (KBTU)	954.591	1335.949
	DY/HR	13/16	17/ 7
	TOTAL (MBTU)	103.440	128.429
NOV	PEAK (KBTU)	466.855	2089.269
	DY/HR	28/ 9	25/ 7
	TOTAL (MBTU)	114.599	258.684
DEC	PEAK (KBTU)	466.855	2311.969
	DY/HR	27/11	5/ 7
	ONE YEAR	2077.793	1142.762
	USE/PEAK	1113.855	2816.991

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOB-2.1D 5/13/1996 8: 6: 3 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	710.4	100.0
LOAD SATISFIED	710.4	100.0
TOTAL LOAD ON PLANT	710.4	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	707.4	100.0
LOAD SATISFIED	707.4	100.0
TOTAL LOAD ON PLANT	707.4	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	2077.8	100.0
LOAD SATISFIED	2077.8	100.0
TOTAL LOAD ON PLANT	2077.8	

EMTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOE-2.1D 6/13/1996 8: 6: 3 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD  
----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	710.4	710.4	0.000	0.000	0
COOLING LOADS	707.4	707.4	0.000	0.000	0
ELECTRICAL LOADS	2077.8	2077.8	0.000	0.000	0

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE UMCS STUDY

DOR-2.1D 6/13/1996 8: 6: 3 PDL RUN 1  
BUILDING 4411 - NEW CONDITIONS  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.038	2.010	1 17 7	4.000 4728				
HERM-REC-CHLR	0.146	1.059	7 25 7	1.100 4416				



ENTTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOB-2.1D    6/13/1996    8: 6: 3    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE UMCS STUDY    BUILDING 4411 - NEW CONDITIONS  
 REPORT- PS-I    EQUIPMENT LIFE CYCLE COSTS    WEATHER FILE- BALTIMORE, MD

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E Q U I P M E N T    T O T A L S

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HW-BOILER	189.8		
NOMINAL SIZE (MBTU)		4.000	
NUMBER INSTALLED		2	
FIRST COST (K\$)	179.6	179.6	
ANNUAL COST (K\$)	4.6	4.6	
CYCLICAL COST (K\$)	5.6	5.6	
-----TOTAL----- (K\$)		189.8	
HERM-REC-CHLR	36.5		
NOMINAL SIZE (MBTU)		1.100	
NUMBER INSTALLED		1	
FIRST COST (K\$)	24.2	24.2	
ANNUAL COST (K\$)	2.3	2.3	
CYCLICAL COST (K\$)	10.1	10.1	
-----TOTAL----- (K\$)		36.5	
-----			
EQUIPMENT TOTAL	226.3		

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	58.97	1142.81
SPACE COOL	787.28	0.00
HVAC AUX	373.27	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	667.58	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	190.73	0.00
	-----	-----
TOTAL	2077.83	1142.81

TOTAL SITE ENERGY    3220.56 MBTU    96.9 KBTU/SQFT-YR GROSS-AREA    96.9 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY    7382.38 MBTU    222.2 KBTU/SQFT-YR GROSS-AREA    222.2 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 6.0  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR NOM CAP RUNNING BTU/HR
	---- ( 1 )	---- ( 3 )	---- ( 4 )	---- ( 1 )	---- ( 3 )	---- ( 7 )
MONTHLY SUMMARY (JAN)						
MN	13302.	1171.	21737.	0.	0.	0.
MX	2009854.	88000.	2816991.	0.	0.	0.
SM	180313280.	14316420.	286727904.	0.	0.	0.
AV	242357.	19243.	385387.	0.	0.	0.
MONTHLY SUMMARY (FEB)						
MN	13302.	1171.	21737.	0.	0.	0.
MX	1905933.	88000.	2697603.	0.	0.	0.
SM	143395008.	11681887.	229560016.	0.	0.	0.
AV	213385.	17384.	341607.	0.	0.	0.
MONTHLY SUMMARY (MAR)						
MN	13302.	1171.	21737.	0.	0.	0.
MX	1498308.	88000.	2224134.	0.	0.	0.
SM	93567888.	8034799.	151894144.	0.	0.	0.
AV	125763.	10799.	204159.	0.	0.	0.
MONTHLY SUMMARY (APR)						
MN	13302.	1171.	21737.	0.	0.	0.
MX	957385.	84250.	1564500.	0.	0.	0.
SM	37511644.	3301025.	61299256.	0.	0.	0.
AV	52100.	4585.	85138.	0.	0.	0.
MONTHLY SUMMARY (MAY)						
MN	0.	0.	0.	20770.	37495.	1100000.
MX	0.	0.	0.	597405.	599127.	1100000.
SM	0.	0.	0.	59784324.	87969448.	818400000.
AV	0.	0.	0.	80355.	118239.	1100000.
MONTHLY SUMMARY (JUN)						
MN	0.	0.	0.	20770.	37495.	1100000.
MX	0.	0.	0.	991827.	708756.	1100000.
SM	0.	0.	0.	148629648.	161680800.	792000000.
AV	0.	0.	0.	206430.	224557.	1100000.
MONTHLY SUMMARY (JUL)						
MN	0.	0.	0.	20770.	37495.	1100000.
MX	0.	0.	0.	1058615.	730857.	1100000.
SM	0.	0.	0.	172337968.	164246784.	818400000.
AV	0.	0.	0.	231637.	220762.	1100000.

	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR NOM CAP RUNNING BTU/HR
	---- ( 1 )	---- ( 3 )	---- ( 4 )	---- ( 1 )	---- ( 3 )	---- ( 7 )
MONTHLY SUMMARY (AUG)						
MN	0.	0.	0.	20770.	37495.	1100000.
MX	0.	0.	0.	1038430.	717941.	1100000.
SM	0.	0.	0.	179088736.	179023936.	818400000.
AV	0.	0.	0.	240711.	240624.	1100000.
MONTHLY SUMMARY (SEP)						
MN	0.	0.	0.	20770.	37495.	1100000.
MX	0.	0.	0.	849815.	681888.	1100000.
SM	0.	0.	0.	111319032.	133770608.	792000000.
AV	0.	0.	0.	154610.	185793.	1100000.
MONTHLY SUMMARY (OCT)						
MN	0.	0.	0.	20770.	37495.	1100000.
MX	817524.	71942.	1335949.	529191.	571593.	1100000.
SM	16012083.	1409063.	26165978.	36185580.	60569460.	818400000.
AV	21522.	1894.	35169.	48637.	81411.	1100000.
MONTHLY SUMMARY (NOV)						
MN	13302.	1171.	21737.	0.	0.	0.
MX	1383478.	88000.	2089269.	0.	0.	0.
SM	79038000.	6810759.	128428648.	0.	0.	0.
AV	109775.	9459.	178373.	0.	0.	0.
MONTHLY SUMMARY (DEC)						
MN	13302.	1171.	21737.	0.	0.	0.
MX	1573395.	88000.	2311969.	0.	0.	0.
SM	160513520.	13410820.	258681744.	0.	0.	0.
AV	215744.	18025.	347691.	0.	0.	0.
YEARLY SUMMARY						
MN	0.	0.	0.	0.	0.	0.
MX	2009854.	88000.	2816991.	1058615.	730857.	1100000.
SM	710351424.	58964776.	1142757760.	707345280.	787261056.	4857600000.
AV	81090.	6731.	130452.	80747.	89870.	554521.

# FT. MEADE, MARYLAND

**Building:** 4418

**Square feet** 7,953

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Concrete block	1.72
Air Space	1.10
3 1/2" Insulation	11.00
Gyp. Board	0.56
Inside Surface	0.68
Total R-Value	15.67
Total U-Value	0.06

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
Air Space	1.10
3 1/2" Insulation	11.00
Plaster	0.56
Inside Surface	0.61
Total R-Value	14.81
Total U-Value	0.07

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	7953
Roof Area	6530
Estimated Infiltration (cfm)	750
Gross Wall Area	6050
Door Area	100
Gross Window Area	600
Other	
Net Wall Area	5350

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$UoAo = (5350 \times 0.06) + (6530 \times 0.07) + (600 \times 0.55) + (100 \times 0.50) = 1158.1$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 4418

Page 1 of 1

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name		AHU-1	Boiler						
COOLING:									
Type of Cooling		1							
Air Side		1							
Location in Building									
Area Sq. Feet		6530							
Supply CFM		6500							
Supply Fan HP		5							
O.A. CFM or %		700							
Return CFM									
Return Fan HP									
Chiller Tonnage		15							
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
HEATING:									
Type of Heating			1						
Source			4						
MBTUH			472/354						
Hot Water Pump HP			3/4						
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4418
Case: 1
Description: LIBRARY
=====

```

```

=====
Fuel Type: Fuel oil, distillate #2
Heating Value: 138,700 Btu/gal
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	483	0.0	0
Duty Cycling	0.000	262	0.0	0
Demand Limiting	0.000	0	0.1	0
Day/Night Setback	0.000	294	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	1,039	0.1	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Hot Water Radiation

Description: HW RADIATION				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	42.204	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	42.204	0	0.0	4
Heating Value /	138,700 Btu/gal			
Totals	304 gal/yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	6,760	0.0	0
Totals	0.000 MBtu/yr	6,760 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 4418

Description	Value	Units
Fuel oil, distillate #2	304	gal/yr
Electrical Energy	7,799	kWh/yr
Electrical Demand Reduction	0.1	kW
Labor Savings	8	mh/yr



# FT. MEADE, MARYLAND

**Building:** 4419

**Square feet** 10,290

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Concrete Block	1.72
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
Air Space	1.10
8" Loose Insulation	24.00
Plaster	0.56
Inside Surface	0.61
Total R-Value	27.81
Total U-Value	0.04

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	10290
Roof Area	6300
Estimated Infiltration (cfm)	1500
Gross Wall Area	10315
Door Area	150
Gross Window Area	910
Other	
Net Wall Area	9255

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$U_oA_o = (9255 \times 0.21) + (6300 \times 0.04) + (910 \times 0.6) + (150 \times 0.5) = 2816$$



**BUILDING NO. 4419**

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	Boiler	Chiller		
COOLING:									
Type of Cooling	3	3	3	3	3				
Air Side	1	1	1	1	1				
Location in Building	Chapel	Chapel	Fellowship	Office	Bsmt Classrms				
Area Sq. Feet	1700	1700	1000	400	2300				
Supply CFM	3500	3500	4000	450	3200				
Supply Fan HP	7 1/2	7 1/2	1 1/2	3/4	1				
O.A. CFM or %	20%	20%	20%	100	0%				
Return CFM									
Return Fan HP									
Chiller Tonnage							75		
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP							5		
HEATING:									
Type of Heating									
Source									
MBTUH									
Hot Water Pump HP							2		
Condensate Pump HP							1		
							768/576		
ADDITIONAL:							1/3		
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling		Type of Heating							
(1) Air Cooled DX	(4) Water Cooled Chiller	(1) Boiler Hot Water							
(2) Water Cooled DX	(5) Central Plant Supplied	(2) Boiler Steam							
(3) Air Cooled Chiller	(6) Other	(3) Steam to Hot Water Converter							
Air Side		Heating Source							
(1) Single Zone	(4) VAV w/ Reheat	(1) Natural Gas							
(2) Multi-Zone	(5) Constant Volume Reheat	(2) Central Plant Steam							
(3) VAV	(6) Heating and Ventilating	(3) Central Plant Hot Water							
		(4) Oil							
		(5) Electric							

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4419
Case: 1
Description: CHAPEL
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-1 CHAPEL LEFT
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	115.664	16,323	0.0	0
Demand Limiting	0.000	0	1.1	0
Vent/Recirculation	11.145	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	126.809	16,323	1.1	4
Heating Value /	1,031 Btu/cf			
Totals	122,996 cf /yr	16,323 kWh/yr	1.1 kW	4 mh/yr

```

=====

```

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-3 FELLOWSHIP HALL

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	109.733	3,783	0.0	0
Demand Limiting	0.000	0	0.2	0
Vent/Recirculation	12.737	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	122.470	3,783	0.2	4
Heating Value /	1,031 Btu/cf			
Totals	118,787 cf /yr	3,783 kWh/yr	0.2 kW	4 mh/yr

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-4 CHAPLIN OFFICE

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	19.192	1,655	0.0	0
Demand Limiting	0.000	0	0.1	0
Vent/Recirculation	1.433	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	20.625	1,655	0.1	4
Heating Value /	1,031 Btu/cf			
Totals	20,005 cf /yr	1,655 kWh/yr	0.1 kW	4 mh/yr

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-5 BASEMENT CLASSROOMS

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	123.510	2,656	0.0	0
Demand Limiting	0.000	0	0.1	0
Vent/Recirculation	10.190	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	133.700	2,656	0.1	4
Heating Value /	1,031 Btu/cf			
Totals	129,680	2,656	0.1	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Single Zone AHU

Description: AHU-2 CHAPEL RIGHT

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	115.664	16,323	0.0	0
Demand Limiting	0.000	0	1.1	0
Vent/Recirculation	11.145	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	126.809	16,323	1.1	4
Heating Value /	1,031 Btu/cf			
Totals	122,996	16,323	1.1	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: CHILLER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	2,371	0.0	0
Chiller Water Reset	0.000	2,714	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	5,085	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 4419

Description	Value	Units
Natural gas (methane)	514,464	cf /yr
Electrical Energy	45,824	kWh/yr
Electrical Demand Reduction	2.7	kW
Labor Savings	24	mh/yr

# FT. MEADE, MARYLAND

**Building:** 4431

**Square feet** 5,812

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Air Space	1.10
Concrete block	1.11
Inside Surface	0.68
Total R-Value	3.50
Total U-Value	0.29

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Slate Roof	0.05
Air Space	1.10
Plaster	0.56
Inside Surface	0.61
Total R-Value	2.49
Total U-Value	0.40

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	14
No. of Basement Levels	
Gross Floor Area	5800
Roof Area	5800
Estimated Infiltration (cfm)	700
Gross Wall Area	4760
Door Area	60
Gross Window Area	330
Other	
Net Wall Area	4370

Window and Door	
	U-Value
Window Single Pane W/Storm	1.00
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	1.00
Door Type 2	
Door Type 3	

$$U_oA_o = (4370 \times 0.4) + (5800 \times 0.28) + (390 \times 1.0) = 3,762$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 4431

Page 1 of 1

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name		Boiler	AHU-1						
COOLING:									
Type of Cooling			1						
Air Side			1						
Location in Building			All						
Area Sq. Feet			5800						
Supply CFM			15000						
Supply Fan HP			7 1/2						
O.A. CFM or %			25%						
Return CFM									
Return Fan HP									
Chiller Tonnage			35						
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
HEATING:									
Type of Heating		2							
Source		1							
MBTUH		2319/1855							
Hot Water Pump HP									
Condensate Pump HP		1/3							
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling					Type of Heating				
(1) Air Cooled DX		(4) Water Cooled Chiller			(1) Boiler Hot Water			(4) Furnace	
(2) Water Cooled DX		(5) Central Plant Supplied			(2) Boiler Steam				
(3) Air Cooled Chiller		(6) Other			(3) Steam to Hot Water Converter				
Air Side					Heating Source				
(1) Single Zone		(4) VAV w/ Reheat			(1) Natural Gas			(4) Oil	
(2) Multi-Zone		(5) Constant Volume Reheat			(2) Central Plant Steam			(5) Electric	
(3) VAV		(6) Heating and Ventilating			(3) Central Plant Hot Water				



## EMCS Annual Energy Savings Summary Report

Base: FTMEADE

Building: 4431

Case: 1

Description: THEATER

Fuel Type: Natural gas (methane)

Heating Value: 1,031 Btu/cf

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Single Zone AHU

Description: BLDG AHU-1

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	119.998	379	0.0	0
Vent/Recirculation	55.974	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	175.972	379	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	170,681 cf /yr	379 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: CONDENSERS				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	2,780	0.0	0
Duty Cycling	0.000	1,552	0.0	0
Demand Limiting	0.000	0	0.7	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	4,332	0.7	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: BLDG LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	14,040	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	14,040	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 4431

Description	Value	Units
Natural gas (methane)	170,681	cf /yr
Electrical Energy	18,750	kWh/yr
Electrical Demand Reduction	0.7	kW
Labor Savings	12	mh/yr

# FT. MEADE, MARYLAND

Building: 4432

Square feet 18,640

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Concrete Block	1.72
Gyp Board	0.56
Inside Surface	0.68
Total R-Value	3.57
Total U-Value	0.28

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Built-up Roof	0.33
1 1/2" Insulation	6.00
Metal Deck	0.00
Air Space	1.10
Acoustical Tile Clg	1.89
Inside Surface	0.61
Total R-Value	10.10
Total U-Value	0.10

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	15
No. of Basement Levels	
Gross Floor Area	18640
Roof Area	18640
Estimated Infiltration (cfm)	1700
Gross Wall Area	15410
Door Area	210
Gross Window Area	1935
Other	
Net Wall Area	13265

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$UoAo = (13265 \times 0.28) + (18640 \times 0.1) + (210 \times 0.5) + (1935 \times 0.6) = 6844.2$$

# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 4432

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	AHU-1	AHU-2	AHU-3	AHU-4	Boiler			
COOLING:								
Type of Cooling	1	1	1	1				
Air Side	1	1	1	1				
Location in Building	CPO	Court Room	Computer Roo	Shop				
Area Sq. Feet	8100	4500	1000	3720				
Supply CFM	9000	5000	1100	4500				
Supply Fan HP	5	5	1/2	3				
O.A. CFM or %	1800	1000	220	900				
Return CFM								
Return Fan HP								
Chiller Tonnage	50	30	3	15				
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP								
HEATING:								
Type of Heating					1			
Source					1			
MBTUH					1000			
Hot Water Pump HP					(2) @ 3/4			
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling				Type of Heating				
(1) Air Cooled DX	(4) Water Cooled Chiller			(1) Boiler Hot Water		(4) Furnace		
(2) Water Cooled DX	(5) Central Plant Supplied			(2) Boiler Steam				
(3) Air Cooled Chiller	(6) Other			(3) Steam to Hot Water Converter				
Air Side				Heating Source				
(1) Single Zone	(4) VAV w/ Reheat			(1) Natural Gas		(4) Oil		
(2) Multi-Zone	(5) Constant Volume Reheat			(2) Central Plant Steam		(5) Electric		
(3) VAV	(6) Heating and Ventilating			(3) Central Plant Hot Water				

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4432
Case: 1
Description:
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone DX-A/C

```

=====
Description: AHU-1
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	223.620	8,440	0.0	0
Demand Limiting	0.000	0	0.7	0
Vent/Recirculation	31.108	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	254.727	8,440	0.7	4
Heating Value /	1,031 Btu/cf			
Totals	247,068	8,440	0.7	4
	cf /yr	kWh/yr	kW	mh/yr

```

=====

```

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-2

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	124.233	7,742	0.0	0
Demand Limiting	0.000	0	0.7	0
Vent/Recirculation	17.282	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	141.515	7,742	0.7	4
Heating Value /	1,031 Btu/cf			
Totals	137,260 cf /yr	7,742 kWh/yr	0.7 kW	4 mh/yr

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-3

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	41.650	1,133	0.0	0
Demand Limiting	0.000	0	0.0746000	0
Vent/Recirculation	3.802	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	45.452	1,133	0.0746000	4
Heating Value /	1,031 Btu/cf			
Totals	44,085 cf /yr	1,133 kWh/yr	0.0746000 kW	4 mh/yr

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-4				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	107.864	4,896	0.0	0
Demand Limiting	0.000	0	0.4	0
Vent/Recirculation	15.554	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	123.418	4,896	0.4	4
Heating Value /	1,031 Btu/cf			
Totals	119,707 cf /yr	4,896 kWh/yr	0.4 kW	4 mh/yr

## Annual Energy Savings Table for Hot Water Radiation

Description: FIN TUBE RADIATION				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	207.492	0	0.0	0
Subtotals	207.492	0	0.0	0
Heating Value /	1,031 Btu/cf			
Totals	201,253 cf /yr	0 kWh/yr	0.0 kW	0 mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: B-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	80.000	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	80.000	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	77,595 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	63,700	0.0	0
Totals	0.000 MBtu/yr	63,700 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 4432

Description	Value	Units
Natural gas (methane)	826,968	cf /yr
Electrical Energy	85,911	kWh/yr
Electrical Demand Reduction	2.0	kW
Labor Savings	20	mh/yr



# FT. MEADE, MARYLAND

**Building:** 4471

**Square feet** 7,248

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Concrete Block	1.72
Air Space	1.10
Gyp Board	0.56
Inside Surface	0.68
Total R-Value	4.23
Total U-Value	0.24

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Shingles	0.44
Wood Deck	0.93
Air Space	1.10
3" Insulation	11.00
Acoustical Tile	1.89
Inside Surface	0.61
Total R-Value	16.14
Total U-Value	0.06

Calculated Total Area	
No. of Floors	1
Avg. Floor to Floor Height	10
No. of Basement Levels	
Gross Floor Area	7248
Roof Area	7248
Estimated Infiltration (cfm)	1000
Gross Wall Area	3480
Door Area	21
Gross Window Area	389
Other	
Net Wall Area	3070

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$U_oA_o = (3070 \times 0.24) + (7248 \times 0.06) + (21 \times 0.5) + (389 \times 0.6) = 1415.6$$

**BUILDING NO. 4471**

EQUIPMENT		SYSTEM NUMBER							
		1	2	3	4	5	6	7	8
Equipment Name	Furnace	Cond Unit	Cond Unit						
COOLING:									
Type of Cooling									
Air Side									
Location in Building									
Area Sq. Feet									
Supply CFM	5500								
Supply Fan HP	1 1/2								
O.A. CFM or %	0%								
Return CFM									
Return Fan HP									
Chiller Tonnage	10			10					
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP									
HEATING:									
Type of Heating	4								
Source	4								
MBTUH	490/380								
Hot Water Pump HP									
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling		Type of Heating							
(1) Air Cooled DX	(4) Water Cooled Chiller	(1) Boiler Hot Water							
(2) Water Cooled DX	(5) Central Plant Supplied	(2) Boiler Steam							
(3) Air Cooled Chiller	(6) Other	(3) Steam to Hot Water Converter							
Air Side		Heating Source							
(1) Single Zone	(4) VAV w/ Reheat	(1) Natural Gas							
(2) Multi-Zone	(5) Constant Volume Reheat	(2) Central Plant Steam							
(3) VAV	(6) Heating and Ventilating	(3) Central Plant Hot Water							
		(4) Oil							
		(5) Electric							

## EMCS Annual Energy Savings Summary Report

Base: FTMEADE  
 Building: 4471  
 Case: 1

## Description:

Fuel Type: Fuel oil, distillate #2  
 Heating Value: 138,700 Btu/gal

## Caution

The ESA program makes no attempt to exclude incompatible strategies.  
 It is the user's responsibility to select all appropriate strategies.

## Annual Energy Savings Table for Direct Fired Furnace

Description: FURNACE

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	58.105	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	58.105	0	0.0	4
Heating Value /	138,700 Btu/gal			
Totals	419 gal/yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled DX Compressor

Description: CONDENSING UNITS

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	3,925	0.0	0
Duty Cycling	0.000	4,655	0.0	0
Demand Limiting	0.000	0	1.5	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	8,580	1.5	4
	MBtu/yr	kWh/yr	kW	mh/yr

## EMCS Annual Energy Savings for Building 4471

Description	Value	Units
Fuel oil, distillate #2	419	gal/yr
Electrical Energy	8,580	kWh/yr
Electrical Demand Reduction	1.5	kW
Labor Savings	8	mh/yr

**ATTACHMENT SECTION 8.2D**

**BUILDINGS 4550 TO 4552**

# FT. MEADE, MARYLAND

**Building:** 4550

**Square feet** 123,400

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Air Space	1.10
Concrete Block	1.72
1" Insulation Rigid	6.00
Plaster	0.56
Inside Surface	0.68
Total R-Value	10.67
Total U-Value	0.09

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Rubber Roof	0.50
2" Insulation Rigid	12.00
Metal Deck	0.00
Air Space	1.10
Acoustic Tile Clg	1.89
Inside Surface	0.61
Total R-Value	16.27
Total U-Value	0.06

Calculated Total Area	
No. of Floors	4
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	123400
Roof Area	26650
Estimated Infiltration (cfm)	6000
Gross Wall Area	57600
Door Area	250
Gross Window Area	9510
Other	
Net Wall Area	47840

Window and Door	
	U-Value
Window Single Pane W/Storm	
Window Single Pane Wo/Storm	
Window Double Pane	0.55
Skylight	
Glass Block	
Other	
Door Type 1	0.55
Door Type 2	
Door Type 3	



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 4550

Page 1 of 2

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7	AHU-8
COOLING:								
Type of Cooling	3	3	3	3	3	3	3	3
Air Side	2	2	2	2	2	2	2	2
Location in Building	4th Flr	1st Flr East	1st Flr West	2nd Flr East	2nd Flr West	3rd Flr East	3rd Flr West	Bsmt West
Area Sq. Feet	15250	13500	13500	13500	13500	13500	13500	13000
Supply CFM	9200	13400	13400	13400	13400	14700	14700	5500
Supply Fan HP	10	15	15	15	15	15	15	7 1/2
O.A. CFM or %	20%	20%	20%	20%	20%	20%	20%	20%
Return CFM								
Return Fan HP								
Chiller Tonnage								
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP								
HEATING:								
Type of Heating								
Source								
MBTUH								
Hot Water Pump HP								
Condensate Pump HP								
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling			Type of Heating					
(1) Air Cooled DX			(1) Boiler Hot Water					
(2) Water Cooled DX			(2) Boiler Steam					
(3) Air Cooled Chiller			(3) Steam to Hot Water Converter					
Air Side			Heating Source					
(1) Single Zone			(1) Natural Gas					
(2) Multi-Zone			(2) Central Plant Steam					
(3) VAV			(3) Central Plant Hot Water					
			(4) Oil					
			(5) Electric					

# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

EQUIPMENT		SYSTEM NUMBER							
	1	2	3	4	5	6	7	8	
Equipment Name	AHU-9	H&V-1	Boiler	Boiler	Chiller	Chiller			
COOLING:									
Type of Cooling	3	N/A			3	3			
Air Side	1	6							
Location in Building	Bsmt East	Bsmt							
Area Sq. Feet	13000	1000							
Supply CFM	4700	3300							
Supply Fan HP	5	1 1/2							
O.A. CFM or %	20%	100%							
Return CFM									
Return Fan HP									
Chiller Tonnage					120	120			
Tower or Condenser Fan HP									
Condenser Pump HP									
Chilled Water Pump HP					20	20			
HEATING:									
Type of Heating			1	1					
Source			1	1					
MBTUH			2160/1878	2160/1878					
Hot Water Pump HP			7 1/2						
Condensate Pump HP									
ADDITIONAL:									
Aux. HP Cooling									
Aux. HP Heating									
Operating Schedule Hrs./Week									
Type of Cooling		Type of Heating							
(1) Air Cooled DX	(4) Water Cooled Chiller	(1) Boiler Hot Water			(4) Furnace				
(2) Water Cooled DX	(5) Central Plant Supplied	(2) Boiler Steam							
(3) Air Cooled Chiller	(6) Other	(3) Steam to Hot Water Converter							
Air Side		Heating Source							
(1) Single Zone	(4) VAV w/ Reheat	(1) Natural Gas			(4) Oil				
(2) Multi-Zone	(5) Constant Volume Reheat	(2) Central Plant Steam			(5) Electric				
(3) VAV	(6) Heating and Ventilating	(3) Central Plant Hot Water							



## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4550
Case: 1
Description: ADMIN-FIRST ARMY HDQTRS EAST
-----
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Single Zone AHU

```

=====
Description: AHU-BW
=====
Strategy          MBtu/yr      kWh/yr      kW   mh/yr
=====
Demand Limiting    0.000        0           3.7    0
Run Time Recording 0.000        0           0.0    2
Safety Alarm       0.000        0           0.0    2
=====
Totals             0.000        0           3.7    4
MBtu/yr            kWh/yr      kW   mh/yr
=====

```

## Annual Energy Savings Table for Multi-zone AHU

```

=====
Description: AHU-1E,1W,2E,2W,3E,3W
=====
Strategy          MBtu/yr      kWh/yr      kW   mh/yr
=====
Demand Limiting    0.000        0           13.4   0
Run Time Recording 0.000        0           0.0    2
Safety Alarm       0.000        0           0.0    2
=====
Totals             0.000        0           13.4   4
MBtu/yr            kWh/yr      kW   mh/yr
=====

```

## Annual Energy Savings Table for Multi-zone AHU

Description: AHU-4				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.5	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	1.5	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Multi-zone AHU

Description: AHU-BE				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	1.1	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	0	1.1	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Heating/Ventilating Unit

Description: H&V-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	399.044	2,487	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	399.044	2,487	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	387,045	2,487	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: BOILER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	152.471	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	152.471	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	147,886 cf /yr	0 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: C-1				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	51,510	0.0	0
Chiller Selection	0.000	1,670	0.0	0
Chiller Water Reset	0.000	20,045	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	73,225 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Lighting Control

Description: BLDG LIGHTING				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	130,000	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000 MBtu/yr	130,000 kWh/yr	0.0 kW	4 mh/yr

## EMCS Annual Energy Savings for Building 4550

Description	Value	Units
Natural gas (methane)	534,931	cf /yr
Electrical Energy	205,712	kWh/yr
Electrical Demand Reduction	19.8	kW
Labor Savings	32	mh/yr

**UMCS FEASIBILITY STUDY  
FORT MEADE  
BUILDING 4550 - ADMINISTRATIVE  
DOE ENERGY SAVINGS SUMMARY**

	Space Heat		Space Cool Electricity mmBtu	HVAC Aux Electricity mmBtu	Lights Electricity mmBtu	Misc Equip Electricity mmBtu	TOTAL		TOTAL	
	Electricity mmBtu	Natural Gas mmBtu					Electricity mmBtu	Natural Gas mmBtu	Electricity Kwh	Natural Gas MCF
Existing	371.4	11,620.2	943.7	1,968.4	1,913.4	853.4	6,050.2	11,620.2	1,772,704	11,270.8
New w/Night Setback	183.4	4,965.3	825.3	1,388.7	1,913.4	853.4	5,164.2	4,965.3	1,513,088	4,816.0
Night Setback Savings							886.1	6,654.9	259,616	6,454.8
New w/Night Setback and Vent/Recirc	174.8	4,863.8	872.2	1,340.0	1,913.4	853.4	5,153.8	4,863.8	1,510,041	4,717.6
Vent/Recirc Savings							10.4	101.5	3,047	98.5
New w/Night Setback & Vent/Recirc & Temp Reset	172.2	4,815.7	882.2	1,314.3	1,913.4	853.4	5,135.6	4,815.7	1,504,706	4,670.9
Temp Reset Savings							18.2	48.1	5,335	46.7

BUILDING 4550  
EXISTING  
FILE: 4550E

ENTECH ENGINEERING READING, PA 19603 H-1 - HOURLY-REPORT			EZDOR - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOB-2.1D 12/ 8/1995 EMCS STUDY		14:25:14	SDL RUN 1
PAGE 1- 1									
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-3	AHU-3	
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	
	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	
MONTHLY SUMMARY (JAN)									
MN	-440332.	8.744	-468586.	-290896.	5.827	-312286.	-298077.	5.998	
MX	-188048.	8.744	-468586.	-89584.	5.827	-312286.	-86697.	5.998	
SM	-255710352.	6505.630	-348628128.	-153531424.	4335.633	-232340784.	-156702752.	4462.252	
AV	-343697.	8.744	-468586.	-206359.	5.827	-312286.	-210622.	5.998	
MONTHLY SUMMARY (FEB)									
MN	-440347.	8.744	-468586.	-293438.	5.827	-312286.	-302007.	5.998	
MX	-32579.	8.744	-468586.	-143.	5.827	-312286.	-1393.	5.998	
SM	-225897392.	5876.053	-314889888.	-135785728.	3916.056	-209856192.	-138520176.	4030.421	
AV	-336157.	8.744	-468586.	-202062.	5.827	-312286.	-206131.	5.998	
MONTHLY SUMMARY (MAR)									
MN	-436190.	8.744	-468586.	-274155.	5.827	-312286.	-280850.	5.998	
MX	-7.	8.744	-468586.	-7.	5.827	-312286.	-6.	5.998	
SM	-212374368.	6505.630	-348628128.	-122874232.	4335.633	-232340784.	-125375040.	4462.252	
AV	-285449.	8.744	-468586.	-165154.	5.827	-312286.	-168515.	5.998	
MONTHLY SUMMARY (APR)									
MN	-398402.	8.744	-468586.	-247121.	5.827	-312286.	-252276.	5.998	
MX	-2.	8.744	-468586.	-1.	5.827	-312286.	-1.	5.998	
SM	-157983616.	6295.771	-337382048.	-88213032.	4195.774	-224845920.	-90282080.	4318.309	
AV	-219422.	8.744	-468586.	-122518.	5.827	-312286.	-125392.	5.998	
MONTHLY SUMMARY (MAY)									
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	0.	6505.630	0.	0.	4335.633	0.	0.	4462.252	
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MONTHLY SUMMARY (JUN)									
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	0.	6295.771	0.	0.	4195.774	0.	0.	4318.309	
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MONTHLY SUMMARY (JUL)									
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	0.	6505.630	0.	0.	4335.633	0.	0.	4462.252	
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998	

	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-3	AHU-3
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	6505.630	0.	0.	4335.633	0.	0.	4462.252
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998
MONTHLY SUMMARY (SEP)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	6295.771	0.	0.	4195.774	0.	0.	4318.309
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998
MONTHLY SUMMARY (OCT)								
MN	-443960.	8.744	-468586.	-293460.	5.827	-312286.	-304172.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	-87302840.	6505.630	-179937040.	-51603120.	4335.633	-119917824.	-52746460.	4462.252
AV	-117343.	8.744	-241851.	-69359.	5.827	-161180.	-70896.	5.998
MONTHLY SUMMARY (NOV)								
MN	-396478.	8.744	-468586.	-262356.	5.827	-312286.	-268322.	5.998
MX	0.	8.744	-468586.	0.	5.827	-312286.	0.	5.998
SM	-191351312.	6295.771	-337382048.	-113463168.	4195.774	-224845920.	-116052664.	4318.309
AV	-265766.	8.744	-468586.	-157588.	5.827	-312286.	-161184.	5.998
MONTHLY SUMMARY (DEC)								
MN	-426039.	8.744	-468586.	-271123.	5.827	-312286.	-277285.	5.998
MX	-55341.	8.744	-468586.	-13493.	5.827	-312286.	-14376.	5.998
SM	-248829152.	6505.630	-348628128.	-150078480.	4335.633	-232340784.	-153529600.	4462.252
AV	-334448.	8.744	-468586.	-201718.	5.827	-312286.	-206357.	5.998
YEARLY SUMMARY								
MN	-443960.	8.744	-468586.	-293460.	5.827	-312286.	-304172.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	-1379449088.	76598.547	-2215475456.	-815549184.	51048.578	-1476488192.	-833208768.	52539.426
AV	-157471.	8.744	-252908.	-93099.	5.827	-168549.	-95115.	5.998

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H-1	PAGE 1- 2								
MMDDHH	AHU-3	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-6	
	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	
	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)	----( 5)	
MONTHLY SUMMARY (JAN)									
MN	-321406.	-290896.	5.827	-312286.	-298077.	5.998	-321406.	-337314.	
MX	-321406.	-89584.	5.827	-312286.	-86697.	5.998	-321406.	-126689.	
SM	-239126080.	-153531424.	4335.633	-232340784.	-156702752.	4462.252	-239126080.	-189485424.	
AV	-321406.	-206359.	5.827	-312286.	-210622.	5.998	-321406.	-254685.	
MONTHLY SUMMARY (FEB)									
MN	-321406.	-293438.	5.827	-312286.	-302007.	5.998	-321406.	-339245.	
MX	-321406.	-143.	5.827	-312286.	-1393.	5.998	-321406.	-11324.	
SM	-215984848.	-135785728.	3916.056	-209856192.	-138520176.	4030.421	-215984848.	-166798832.	
AV	-321406.	-202062.	5.827	-312286.	-206131.	5.998	-321406.	-248213.	
MONTHLY SUMMARY (MAR)									
MN	-321406.	-274155.	5.827	-312286.	-280850.	5.998	-321406.	-327431.	
MX	-321406.	-7.	5.827	-312286.	-6.	5.998	-321406.	-7.	
SM	-239126080.	-122874232.	4335.633	-232340784.	-125375040.	4462.252	-239126080.	-152862832.	
AV	-321406.	-165154.	5.827	-312286.	-168515.	5.998	-321406.	-205461.	
MONTHLY SUMMARY (APR)									
MN	-321406.	-247121.	5.827	-312286.	-252276.	5.998	-321406.	-297662.	
MX	-321406.	-1.	5.827	-312286.	-1.	5.998	-321406.	-1.	
SM	-231412336.	-88213032.	4195.774	-224845920.	-90282080.	4318.309	-231412336.	-110714744.	
AV	-321406.	-122518.	5.827	-312286.	-125392.	5.998	-321406.	-153770.	
MONTHLY SUMMARY (MAY)									
MN	0.	0.	5.827	0.	0.	5.998	0.	0.	
MX	0.	0.	5.827	0.	0.	5.998	0.	0.	
SM	0.	0.	4335.633	0.	0.	4462.252	0.	0.	
AV	0.	0.	5.827	0.	0.	5.998	0.	0.	
MONTHLY SUMMARY (JUN)									
MN	0.	0.	5.827	0.	0.	5.998	0.	0.	
MX	0.	0.	5.827	0.	0.	5.998	0.	0.	
SM	0.	0.	4195.774	0.	0.	4318.309	0.	0.	
AV	0.	0.	5.827	0.	0.	5.998	0.	0.	
MONTHLY SUMMARY (JUL)									
MN	0.	0.	5.827	0.	0.	5.998	0.	0.	
MX	0.	0.	5.827	0.	0.	5.998	0.	0.	
SM	0.	0.	4335.633	0.	0.	4462.252	0.	0.	
AV	0.	0.	5.827	0.	0.	5.998	0.	0.	



	AHU-3	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-6
	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	4335.633	0.	0.	4462.252	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	4195.774	0.	0.	4318.309	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (OCT)								
MN	-321406.	-293460.	5.827	-312286.	-304172.	5.998	-321406.	-340150.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	-123419912.	-51603120.	4335.633	-119917824.	-52746460.	4462.252	-123419912.	-63547928.
AV	-165887.	-69359.	5.827	-161180.	-70896.	5.998	-165887.	-85414.
MONTHLY SUMMARY (NOV)								
MN	-321406.	-262356.	5.827	-312286.	-268322.	5.998	-321406.	-307015.
MX	-321406.	0.	5.827	-312286.	0.	5.998	-321406.	0.
SM	-231412336.	-113463168.	4195.774	-224845920.	-116052664.	4318.309	-231412336.	-140530272.
AV	-321406.	-157588.	5.827	-312286.	-161184.	5.998	-321406.	-195181.
MONTHLY SUMMARY (DEC)								
MN	-321406.	-271123.	5.827	-312286.	-277285.	5.998	-321406.	-321997.
MX	-321406.	-13493.	5.827	-312286.	-14376.	5.998	-321406.	-32172.
SM	-239126080.	-150078480.	4335.633	-232340784.	-153529600.	4462.252	-239126080.	-184894384.
AV	-321406.	-201718.	5.827	-312286.	-206357.	5.998	-321406.	-248514.
YEARLY SUMMARY								
MN	-321406.	-293460.	5.827	-312286.	-304172.	5.998	-321406.	-340150.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	-1519607552.	-815549184.	51048.578	-1476488192.	-833208768.	52539.426	-1519607552.	-1008834368.
AV	-173471.	-93099.	5.827	-168549.	-95115.	5.998	-173471.	-115164.

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MMDDHH	AHU-6	AHU-6	AHU-7	AHU-7	AHU-7	AHU-8	AHU-8	AHU-8	
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	
	----(49)	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)	
MONTHLY SUMMARY (JAN)									
MN	6.737	-361032.	-342994.	6.890	-369208.	-187554.	2.758	-179073.	
MX	6.737	-361032.	-123293.	6.890	-369208.	-109798.	2.758	-179073.	
SM	5012.394	-268607360.	-192241104.	5125.914	-274690784.	-121120848.	2052.112	-133230512.	
AV	6.737	-361031.	-258389.	6.890	-369208.	-162797.	2.758	-179073.	
MONTHLY SUMMARY (FEB)									
MN	6.737	-361032.	-346928.	6.890	-369208.	-197097.	2.758	-179073.	
MX	6.737	-361032.	-11963.	6.890	-369208.	-92445.	2.758	-179073.	
SM	4527.324	-242613088.	-169147776.	4629.858	-248107808.	-112495736.	1853.521	-120337232.	
AV	6.737	-361031.	-251708.	6.890	-369208.	-167404.	2.758	-179073.	
MONTHLY SUMMARY (MAR)									
MN	6.737	-361032.	-333564.	6.890	-369208.	-195943.	2.758	-179073.	
MX	6.737	-361032.	-7.	6.890	-369208.	-36494.	2.758	-179073.	
SM	5012.394	-268607360.	-154975952.	5125.914	-274690784.	-119968120.	2052.112	-133230512.	
AV	6.737	-361031.	-208301.	6.890	-369208.	-161247.	2.758	-179073.	
MONTHLY SUMMARY (APR)									
MN	6.737	-361032.	-302246.	6.890	-369208.	-186668.	2.758	-179073.	
MX	6.737	-361032.	0.	6.890	-369208.	-14512.	2.758	-179073.	
SM	4850.704	-259942592.	-112492848.	4960.562	-265829792.	-102786792.	1985.915	-128932752.	
AV	6.737	-361031.	-156240.	6.890	-369208.	-142759.	2.758	-179073.	
MONTHLY SUMMARY (MAY)									
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.	
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.	
SM	5012.394	0.	0.	5125.914	0.	0.	2052.112	0.	
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.	
MONTHLY SUMMARY (JUN)									
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.	
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.	
SM	4850.704	0.	0.	4960.562	0.	0.	1985.915	0.	
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.	
MONTHLY SUMMARY (JUL)									
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.	
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.	
SM	5012.394	0.	0.	5125.914	0.	0.	2052.112	0.	
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.	

	AHU-6	AHU-6	AHU-7	AHU-7	AHU-7	AHU-8	AHU-8	AHU-8
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	5012.394	0.	0.	5125.914	0.	0.	2052.112	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.
MONTHLY SUMMARY (SEP)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	4850.704	0.	0.	4960.562	0.	0.	1985.915	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.
MONTHLY SUMMARY (OCT)								
MN	6.737	-361032.	-349804.	6.890	-369208.	-178229.	2.758	-179073.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	5012.394	-138636064.	-64516248.	5125.914	-141775904.	-30923434.	2052.112	-68764112.
AV	6.737	-186339.	-86715.	6.890	-190559.	-41564.	2.758	-92425.
MONTHLY SUMMARY (NOV)								
MN	6.737	-361032.	-312418.	6.890	-369208.	-168087.	2.758	-179073.
MX	6.737	-361032.	0.	6.890	-369208.	-15.	2.758	-179073.
SM	4850.704	-259942592.	-142760624.	4960.562	-265829792.	-76514864.	1985.915	-128932752.
AV	6.737	-361031.	-198279.	6.890	-369208.	-106271.	2.758	-179073.
MONTHLY SUMMARY (DEC)								
MN	6.737	-361032.	-327592.	6.890	-369208.	-170093.	2.758	-179073.
MX	6.737	-361032.	-32824.	6.890	-369208.	-44668.	2.758	-179073.
SM	5012.394	-268607360.	-187924160.	5125.914	-274690784.	-109070104.	2052.112	-133230512.
AV	6.737	-361031.	-252586.	6.890	-369208.	-146600.	2.758	-179073.
YEARLY SUMMARY								
MN	6.737	-361032.	-349804.	6.890	-369208.	-197097.	2.758	-179073.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	59016.898	-1706956416.	-1024058688.	60353.508	-1745615616.	-672879872.	24161.969	-846658368.
AV	6.737	-194858.	-116902.	6.890	-199271.	-76813.	2.758	-96651.

MMDDHH	AHU-9	AHU-9	AHU-9
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (JAN)			
MN	-201960.	3.239	-210316.
MX	-121343.	3.239	-210316.
SM	-136985504.	2410.141	-156474944.
AV	-184120.	3.239	-210316.
MONTHLY SUMMARY (FEB)			
MN	-227505.	3.239	-210316.
MX	-89892.	3.239	-210316.
SM	-128790616.	2176.901	-141332192.
AV	-191653.	3.239	-210316.
MONTHLY SUMMARY (MAR)			
MN	-221317.	3.239	-210316.
MX	-30554.	3.239	-210316.
SM	-135708736.	2410.141	-156474944.
AV	-182404.	3.239	-210316.
MONTHLY SUMMARY (APR)			
MN	-215390.	3.239	-210316.
MX	-11506.	3.239	-210316.
SM	-113795200.	2332.394	-151427360.
AV	-158049.	3.239	-210316.
MONTHLY SUMMARY (MAY)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	2410.141	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (JUN)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	2332.394	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (JUL)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	2410.141	0.
AV	0.	3.239	0.

ENTECH ENGINEERING  
READING, PA 19603  
H-1 = HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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	AHU-9	AHU-9	AHU-9
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	2410.141	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (SEP)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	2332.394	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (OCT)			
MN	-209076.	3.239	-210316.
MX	0.	3.239	0.
SM	-35983632.	2410.141	-80761264.
AV	-48365.	3.239	-108550.
MONTHLY SUMMARY (NOV)			
MN	-184892.	3.239	-210316.
MX	-15.	3.239	-210316.
SM	-86462528.	2332.394	-151427360.
AV	-120087.	3.239	-210316.
MONTHLY SUMMARY (DEC)			
MN	-199734.	3.239	-210316.
MX	-50457.	3.239	-210316.
SM	-121442312.	2410.141	-156474944.
AV	-163229.	3.239	-210316.
YEARLY SUMMARY			
MN	-227505.	3.239	-210316.
MX	0.	3.239	0.
SM	-759168512.	28377.465	-994373056.
AV	-86663.	3.239	-113513.

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WEATHER FILE- BALTIMORE, MD

[illegible]

MONTH	SITE ENERGY												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRED ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	1535.6	0.0	435.3 127.5E	0.0	0.0	0.0	0.0 0.0E	2120.1	71.8 21.0E	0.0	2120.1	2555.4	3427.4
FEB	1369.5	0.0	393.0 115.1E	0.0	0.0	0.0	0.0 0.0E	1891.5	64.3 18.8E	0.0	1891.5	2284.4	3071.5
MAR	1292.0	0.0	450.6 132.0E	0.0	0.0	0.0	0.0 0.0E	1825.8	69.3 20.3E	0.0	1825.8	2276.4	3179.1
APR	973.8	0.0	417.5 122.3E	0.0	0.0	0.0	0.0 0.0E	1406.0	59.7 17.5E	0.0	1406.0	1823.5	2659.9
MAY	0.0	156.6	491.6 144.0E	0.0	0.0	0.0	128.1 37.5E	0.0	0.0 0.0E	0.0	0.0	491.6	1476.3
JUN	0.0	423.3	595.9 174.5E	0.0	0.0	0.0	229.2 67.1E	0.0	0.0 0.0E	0.0	0.0	595.9	1789.5
JUL	0.0	648.1	666.6 195.2E	0.0	0.0	0.0	312.0 91.4E	0.0	0.0 0.0E	0.0	0.0	666.6	2001.9
AUG	0.0	608.3	673.2 197.1E	0.0	0.0	0.0	291.8 85.5E	0.0	0.0 0.0E	0.0	0.0	673.2	2021.5
SEP	0.0	332.9	549.7 161.0E	0.0	0.0	0.0	191.8 56.2E	0.0	0.0 0.0E	0.0	0.0	549.7	1650.7
OCT	501.1	206.2	529.4 155.0E	0.0	0.0	0.0	142.0 41.6E	733.9	32.8 9.6E	0.0	733.9	1263.3	2323.7
NOV	1115.6	0.0	411.9 120.6E	0.0	0.0	0.0	0.0 0.0E	1589.1	63.0 18.5E	0.0	1589.1	2001.0	2826.1
DEC	1479.0	0.0	435.0 127.4E	0.0	0.0	0.0	0.0 0.0E	2053.9	71.5 20.9E	0.0	2053.9	2488.9	3360.3
-----	8266.6	2375.3	6049.8 1771.8E	0.0	0.0	0.0	1294.8 379.2E	11620.2	432.4 126.6E	0.0	11620.2	17670.0	29787.7

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D 12/ 8/1995      14:25:14      PDL RUN 1  
 READING, PA      19603      FT. GEORGE G. MEADE      EMCS STUDY  
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE      WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	435.341	2120.061
JAN	PEAK (KBTU)	1224.857	3560.230
	DY/HR	31/17	16/21
	TOTAL (MBTU)	392.955	1891.492
FEB	PEAK (KBTU)	1224.857	3581.028
	DY/HR	28/ 9	12/ 6
	TOTAL (MBTU)	450.642	1825.799
MAR	PEAK (KBTU)	1224.857	3459.071
	DY/HR	31/17	5/ 8
	TOTAL (MBTU)	417.541	1405.998
APR	PEAK (KBTU)	1224.857	3221.431
	DY/HR	29/ 9	9/ 7
	TOTAL (MBTU)	491.591	0.000
MAY	PEAK (KBTU)	1720.365	0.000
	DY/HR	26/17	31/ 1
	TOTAL (MBTU)	595.906	0.000
JUN	PEAK (KBTU)	2036.384	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	666.622	0.000
JUL	PEAK (KBTU)	2085.890	0.000
	DY/HR	25/16	31/ 1
	TOTAL (MBTU)	673.152	0.000
AUG	PEAK (KBTU)	2080.196	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	549.670	0.000
SEP	PEAK (KBTU)	1984.596	0.000
	DY/HR	2/14	30/ 1
	TOTAL (MBTU)	529.402	733.880
OCT	PEAK (KBTU)	1793.101	3596.546
	DY/HR	18/15	16/ 9
	TOTAL (MBTU)	411.936	1589.100
NOV	PEAK (KBTU)	1224.857	3295.627
	DY/HR	30/17	25/ 7
	TOTAL (MBTU)	435.020	2053.885
DEC	PEAK (KBTU)	1224.857	3414.721
	DY/HR	30/17	6/ 5
	ONE YEAR	6049.779	11620.216
	USE/PEAK	2085.890	3596.546



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/ 8/1995 14:25:14 PDL RUN 1  
EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	8266.6	100.0
	-----	-----
LOAD SATISFIED	8266.6	100.0
TOTAL LOAD ON PLANT	8266.6	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	2375.3	100.0
	-----	-----
LOAD SATISFIED	2375.3	100.0
TOTAL LOAD ON PLANT	2375.3	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	6049.8	100.0
	-----	-----
LOAD SATISFIED	6049.8	100.0
TOTAL LOAD ON PLANT	6049.4	

ENTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOR-2.1D 12/ 8/1995	14:25:14 PDL RUN 1
READING, PA 19603	FT. GEORGE G. MEADE	EMCS STUDY	
REPORT- PS-D PLANT LOADS SATISFIED		WEATHER FILE- BALTIMORE, MD	

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	8266.6	8266.6	0.000	0.000	0
COOLING LOADS	2375.3	2375.3	0.000	0.000	0
ELECTRICAL LOADS	6049.4	6049.8	0.000	0.000	0

WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
			DAY	HR										
HW-BOILER	0.460	2.728	10	16	9	3.800	4728							
HEM-REC-CHLR	0.193	2.653	8	18	17	2.800	4392							

ENTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D 12/ 8/1995      14:25:14 PDL RUN 1  
 READING, PA      19603      FT. GEORGE G. MEADE      EMCS STUDY  
 REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS      WEATHER FILE- BALTIMORE, MD

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R Q U I P M E N T      T O T A L S

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HW-BOILER	95.7		
NOMINAL SIZE (MBTU)		3.800	
NUMBER INSTALLED		1	
FIRST COST (K\$)	86.8	86.8	
ANNUAL COST (K\$)	1.1	1.1	
CYCLICAL COST (K\$)	7.8	7.8	
-----TOTAL----- (K\$)		95.7	
HERM-REC-CHLR	107.2		
NOMINAL SIZE (MBTU)		2.800	
NUMBER INSTALLED		2	
FIRST COST (K\$)	90.5	90.5	
ANNUAL COST (K\$)	10.9	10.9	
CYCLICAL COST (K\$)	5.8	5.8	
-----TOTAL----- (K\$)		107.2	
EQUIPMENT TOTAL	202.8		

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	371.36	11620.20
SPACE COOL	943.72	0.00
HVAC AUX	1968.38	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	1913.42	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	853.36	0.00
	-----	-----
TOTAL	6050.23	11620.20

TOTAL SITE ENERGY      17670.00 MBTU      145.8 KBTU/SQFT-YR GROSS-AREA      145.8 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY      29787.72 MBTU      245.8 KBTU/SQFT-YR GROSS-AREA      245.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 48.8  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED      = 0.0

NOTE      ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND.      ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTTECH ENGINEERING  
READING, PA 19603  
HRLY-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/ 8/1995 14:25:14 PDL RUN 1  
EMCS STUDY

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MMDDHH	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	HW-BOILE R LOAD BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR
	----( 3)	----( 1)	----(18)	----( 1)	----( 4)	----( 3)
MONTHLY SUMMARY (JAN)						
MN	0.	0.	0.	1055869.	1678797.	83600.
MX	0.	0.	0.	2694685.	3560230.	83600.
SM	0.	0.	0.	1535633664.	2120061952.	62198400.
AV	0.	0.	0.	2064024.	2849546.	83600.
MONTHLY SUMMARY (FEB)						
MN	0.	0.	0.	267650.	437377.	23553.
MX	0.	0.	0.	2713510.	3581028.	83600.
SM	0.	0.	0.	1369465216.	1891490432.	55635840.
AV	0.	0.	0.	2037895.	2814718.	82791.
MONTHLY SUMMARY (MAR)						
MN	0.	0.	0.	93491.	152777.	8227.
MX	0.	0.	0.	2603356.	3459071.	83600.
SM	0.	0.	0.	1292010880.	1825798784.	59673900.
AV	0.	0.	0.	1736574.	2454031.	80207.
MONTHLY SUMMARY (APR)						
MN	0.	0.	0.	52394.	85618.	4611.
MX	0.	0.	0.	2390340.	3221431.	83600.
SM	0.	0.	0.	973752704.	1405998464.	50398544.
AV	0.	0.	0.	1352434.	1952776.	69998.
MONTHLY SUMMARY (MAY)						
MN	55869.	127958.	14331.	0.	0.	0.
MX	512072.	1419959.	78400.	0.	0.	0.
SM	68576432.	156590192.	16018904.	0.	0.	0.
AV	92173.	210471.	21531.	0.	0.	0.
MONTHLY SUMMARY (JUN)						
MN	55869.	127958.	14331.	0.	0.	0.
MX	828090.	2399618.	78400.	0.	0.	0.
SM	171586544.	423281024.	31026686.	0.	0.	0.
AV	238315.	587890.	43093.	0.	0.	0.
MONTHLY SUMMARY (JUL)						
MN	55869.	127958.	14331.	0.	0.	0.
MX	877597.	2589726.	78400.	0.	0.	0.
SM	252521088.	648050816.	43114356.	0.	0.	0.
AV	339410.	871036.	57949.	0.	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/ 8/1995 14:25:14 PDL RUN 1  
EMCS STUDY

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	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR CONDENS FAN ELEC BTU/HR	HW-BOILE R LOAD BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR
	---- ( 3 )	---- ( 1 )	---- (18)	---- ( 1 )	---- ( 4 )	---- ( 3 )
MONTHLY SUMMARY (AUG)						
MN	55869.	127958.	14331.	0.	0.	0.
MX	871903.	2652918.	78400.	0.	0.	0.
SM	232312048.	608249600.	38588352.	0.	0.	0.
AV	312247.	817540.	51866.	0.	0.	0.
MONTHLY SUMMARY (SEP)						
MN	55869.	127958.	14331.	0.	0.	0.
MX	776303.	2273596.	78400.	0.	0.	0.
SM	134263104.	332905632.	25856538.	0.	0.	0.
AV	186477.	462369.	35912.	0.	0.	0.
MONTHLY SUMMARY (OCT)						
MN	0.	0.	0.	0.	0.	0.
MX	555440.	1623739.	78400.	2727567.	3596546.	83600.
SM	84399168.	206205120.	19506464.	501100896.	733879936.	27860880.
AV	113440.	277157.	26218.	673523.	986398.	37447.
MONTHLY SUMMARY (NOV)						
MN	0.	0.	0.	26404.	43148.	2324.
MX	0.	0.	0.	2456620.	3295627.	83600.
SM	0.	0.	0.	1115640448.	1589099264.	53706204.
AV	0.	0.	0.	1549501.	2207082.	74592.
MONTHLY SUMMARY (DEC)						
MN	0.	0.	0.	297574.	486278.	26187.
MX	0.	0.	0.	2563440.	3414721.	83600.
SM	0.	0.	0.	1478998400.	2053884416.	61877376.
AV	0.	0.	0.	1987901.	2760597.	83169.
YEARLY SUMMARY						
MN	0.	0.	0.	0.	0.	0.
MX	877597.	2652918.	78400.	2727567.	3596546.	83600.
SM	943658368.	2375282432.	174111312.	8266602496.	11620212736.	371351136.
AV	107724.	271151.	19876.	943676.	1326508.	42392.

BUILDING 4550  
NIGHT SETBACK ONLY.  
FILE: FTMD4550

ENTECH ENGINEERING READING, PA 19603 H-1 HOURLY-REPORT			EZDOR - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 12/11/1995 13:51:29 SDL RUN 1 EMCS STUDY			PAGE 1- 1
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-3	AHU-3	
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	
	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	
MONTHLY SUMMARY (JAN)									
MN	-496240.	8.744	-468586.	-330594.	5.827	-312286.	-340247.	5.998	
MX	-33.	8.744	-468586.	-33.	5.827	-312286.	-29.	5.998	
SM	-112497064.	3252.818	-174314064.	-62960336.	2167.817	-116170392.	-63814316.	2231.126	
AV	-302411.	8.744	-468586.	-169248.	5.827	-312286.	-171544.	5.998	
MONTHLY SUMMARY (FEB)									
MN	-495920.	8.744	-468586.	-332924.	5.827	-312286.	-336776.	5.998	
MX	-24.	8.744	-468586.	-24.	5.827	-312286.	-24.	5.998	
SM	-97151288.	2938.029	-157444944.	-53934556.	1958.028	-104928096.	-54637044.	2015.211	
AV	-289141.	8.744	-468586.	-160520.	5.827	-312286.	-162610.	5.998	
MONTHLY SUMMARY (MAR)									
MN	-492234.	8.744	-468586.	-330541.	5.827	-312286.	-340192.	5.998	
MX	-8.	8.744	-468586.	-7.	5.827	-312286.	-7.	5.998	
SM	-86516976.	3252.818	-174314064.	-43453192.	2167.817	-116170392.	-43895268.	2231.126	
AV	-232573.	8.744	-468586.	-116810.	5.827	-312286.	-117998.	5.998	
MONTHLY SUMMARY (APR)									
MN	-482746.	8.744	-468586.	-324569.	5.827	-312286.	-328755.	5.998	
MX	-2.	8.744	-468586.	0.	5.827	-312286.	0.	5.998	
SM	-50663248.	3147.888	-168691024.	-21140704.	2097.887	-112422960.	-21471688.	2159.155	
AV	-140731.	8.744	-468586.	-58724.	5.827	-312286.	-59649.	5.998	
MONTHLY SUMMARY (MAY)									
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126	
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MONTHLY SUMMARY (JUN)									
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	0.	3147.888	0.	0.	2097.887	0.	0.	2159.155	
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MONTHLY SUMMARY (JUL)									
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126	
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998	



ENTECH ENGINEERING READING, PA 19603 H-1 = HOURLY-REPORT			EZDOR - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1.D 12/11/1995 13:51:29 SDL RUN 1 EMCS STUDY			PAGE 2- 1
AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-3	AHU-3		
TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW		
---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)		
MONTHLY SUMMARY (AUG)									
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126	
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MONTHLY SUMMARY (SEP)									
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	0.	3147.888	0.	0.	2097.887	0.	0.	2159.155	
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998	
MONTHLY SUMMARY (OCT)									
MN	-496146.	8.744	-468586.	-333037.	5.827	-312286.	-338105.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	-28273814.	3252.818	-89968528.	-13615919.	2167.817	-59958912.	-13777088.	2231.126	
AV	-76005.	8.744	-241851.	-36602.	5.827	-161180.	-37035.	5.998	
MONTHLY SUMMARY (NOV)									
MN	-495436.	8.744	-468586.	-333080.	5.827	-312286.	-340222.	5.998	
MX	0.	8.744	-468586.	0.	5.827	-312286.	0.	5.998	
SM	-70205008.	3147.888	-168691024.	-36465880.	2097.887	-112422960.	-36984832.	2159.155	
AV	-195014.	8.744	-468586.	-101294.	5.827	-312286.	-102736.	5.998	
MONTHLY SUMMARY (DEC)									
MN	-485971.	8.744	-468586.	-330567.	5.827	-312286.	-340211.	5.998	
MX	-33.	8.744	-468586.	-33.	5.827	-312286.	-33.	5.998	
SM	-106770608.	3252.818	-174314064.	-60011468.	2167.817	-116170392.	-61090688.	2231.126	
AV	-287018.	8.744	-468586.	-161321.	5.827	-312286.	-164222.	5.998	
YEARLY SUMMARY									
MN	-496240.	8.744	-468586.	-333080.	5.827	-312286.	-340247.	5.998	
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998	
SM	-552078016.	38299.309	-1107737728.	-291582048.	25524.291	-738244096.	-295672928.	26269.715	
AV	-126045.	8.744	-252908.	-66571.	5.827	-168549.	-67505.	5.998	

MMDDHH	AHU-3	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-6
	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)	----( 5)
MONTHLY SUMMARY (JAN)								
MN	-321406.	-330594.	5.827	-312286.	-340247.	5.998	-321406.	-382186.
MX	-321406.	-33.	5.827	-312286.	-29.	5.998	-321406.	-10881.
SM	-119563040.	-62960336.	2167.817	-116170392.	-63814316.	2231.126	-119563040.	-81248432.
AV	-321406.	-169248.	5.827	-312286.	-171544.	5.998	-321406.	-218410.
MONTHLY SUMMARY (FEB)								
MN	-321406.	-332924.	5.827	-312286.	-336776.	5.998	-321406.	-380875.
MX	-321406.	-24.	5.827	-312286.	-24.	5.998	-321406.	-398.
SM	-107992424.	-53934556.	1958.028	-104928096.	-54637044.	2015.211	-107992424.	-69446000.
AV	-321406.	-160520.	5.827	-312286.	-162610.	5.998	-321406.	-206685.
MONTHLY SUMMARY (MAR)								
MN	-321406.	-330541.	5.827	-312286.	-340192.	5.998	-321406.	-381598.
MX	-321406.	-7.	5.827	-312286.	-7.	5.998	-321406.	-7.
SM	-119563040.	-43453192.	2167.817	-116170392.	-43895268.	2231.126	-119563040.	-58335216.
AV	-321406.	-116810.	5.827	-312286.	-117998.	5.998	-321406.	-156815.
MONTHLY SUMMARY (APR)								
MN	-321406.	-324569.	5.827	-312286.	-328755.	5.998	-321406.	-370271.
MX	-321406.	0.	5.827	-312286.	0.	5.998	-321406.	0.
SM	-115706168.	-21140704.	2097.887	-112422960.	-21473688.	2159.155	-115706168.	-30901120.
AV	-321406.	-58724.	5.827	-312286.	-59649.	5.998	-321406.	-85836.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2097.887	0.	0.	2159.155	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.

	AHU-3	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-6
	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)	----( 5)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2097.887	0.	0.	2159.155	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (OCT)								
MN	-321406.	-333037.	5.827	-312286.	-338105.	5.998	-321406.	-381157.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	-61709956.	-13615919.	2167.817	-59958912.	-13777088.	2231.126	-61709956.	-18772948.
AV	-165887.	-36602.	5.827	-161180.	-37035.	5.998	-165887.	-50465.
MONTHLY SUMMARY (NOV)								
MN	-321406.	-333080.	5.827	-312286.	-340222.	5.998	-321406.	-382159.
MX	-321406.	0.	5.827	-312286.	0.	5.998	-321406.	0.
SM	-115706168.	-36465880.	2097.887	-112422960.	-36984832.	2159.155	-115706168.	-49088744.
AV	-321406.	-101294.	5.827	-312286.	-102736.	5.998	-321406.	-136358.
MONTHLY SUMMARY (DEC)								
MN	-321406.	-330567.	5.827	-312286.	-340211.	5.998	-321406.	-382155.
MX	-321406.	-33.	5.827	-312286.	-33.	5.998	-321406.	-27756.
SM	-119563040.	-60011468.	2167.817	-116170392.	-61090688.	2231.126	-119563040.	-77739880.
AV	-321406.	-161321.	5.827	-312286.	-164222.	5.998	-321406.	-208978.
YEARLY SUMMARY								
MN	-321406.	-333080.	5.827	-312286.	-340247.	5.998	-321406.	-382186.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	-759803776.	-291582048.	25524.291	-738244096.	-295672928.	26269.715	-759803776.	-385532320.
AV	-173471.	-66571.	5.827	-168549.	-67505.	5.998	-173471.	-88021.

MMDDHH	AHU-6	AHU-6	AHU-7	AHU-7	AHU-7	AHU-8	AHU-8	AHU-8
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (JAN)								
MN	6.737	-361032.	-390837.	6.890	-369208.	-156487.	2.758	-147809.
MX	6.737	-361032.	-7638.	6.890	-369208.	-60823.	2.758	-147809.
SM	2506.197	-134303680.	-81919944.	2562.957	-137345424.	-47315776.	1026.056	-54984952.
AV	6.737	-361031.	-220215.	6.890	-369208.	-127193.	2.758	-147809.
MONTHLY SUMMARY (FEB)								
MN	6.737	-361032.	-385263.	6.890	-369208.	-166678.	2.758	-147809.
MX	6.737	-361032.	-635.	6.890	-369208.	-72583.	2.758	-147809.
SM	2263.662	-121306544.	-69959312.	2314.929	-124053936.	-44521812.	926.760	-49663828.
AV	6.737	-361031.	-208212.	6.890	-369208.	-132505.	2.758	-147809.
MONTHLY SUMMARY (MAR)								
MN	6.737	-361032.	-390235.	6.890	-369208.	-164495.	2.758	-147809.
MX	6.737	-361032.	-7.	6.890	-369208.	-42439.	2.758	-147809.
SM	2506.197	-134303680.	-58595960.	2562.957	-137345424.	-47988392.	1026.056	-54984952.
AV	6.737	-361031.	-157516.	6.890	-369208.	-129001.	2.758	-147809.
MONTHLY SUMMARY (APR)								
MN	6.737	-361032.	-376615.	6.890	-369208.	-161125.	2.758	-147809.
MX	6.737	-361032.	0.	6.890	-369208.	-30414.	2.758	-147809.
SM	2425.352	-129971296.	-31243602.	2480.281	-132914928.	-40114676.	992.958	-53211244.
AV	6.737	-361031.	-86788.	6.890	-369208.	-111430.	2.758	-147809.
MONTHLY SUMMARY (MAY)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2506.197	0.	0.	2562.957	0.	0.	1026.056	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.
MONTHLY SUMMARY (JUN)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2425.352	0.	0.	2480.281	0.	0.	992.958	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.
MONTHLY SUMMARY (JUL)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2506.197	0.	0.	2562.957	0.	0.	1026.056	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.

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= HOURLY-REPORT							
AHU-6		AHU-6		AHU-7		AHU-7	
SUPPLY ELECTRIC KW		HEATING CAPACITY BTU/HR		TOT HTG COIL PWR BTU/HR		SUPPLY ELECTRIC KW	
----(49)		----(78)		----( 5)		----(49)	
----(78)		----( 5)		----(49)		----(78)	
MONTHLY SUMMARY (AUG)							
MN 6.737		0.		0.		6.890	
MX 6.737		0.		0.		6.890	
SM 2506.197		0.		0.		2562.957	
AV 6.737		0.		0.		6.890	
MONTHLY SUMMARY (SEP)							
MN 6.737		0.		0.		6.890	
MX 6.737		0.		0.		6.890	
SM 2425.352		0.		0.		2480.281	
AV 6.737		0.		0.		6.890	
MONTHLY SUMMARY (OCT)							
MN 6.737		-361032.		-386617.		6.890	
MX 6.737		0.		0.		6.890	
SM 2506.197		-69318032.		-18889846.		2562.957	
AV 6.737		-186339.		-50779.		6.890	
MONTHLY SUMMARY (NOV)							
MN 6.737		-361032.		-390809.		6.890	
MX 6.737		-361032.		0.		6.890	
SM 2425.352		-129971296.		-49496228.		2480.281	
AV 6.737		-361031.		-137490.		6.890	
MONTHLY SUMMARY (DEC)							
MN 6.737		-361032.		-389861.		6.890	
MX 6.737		-361032.		-28244.		6.890	
SM 2506.197		-134303680.		-78623088.		2562.957	
AV 6.737		-361031.		-211352.		6.890	
YEARLY SUMMARY							
MN 6.737		-361032.		-390837.		6.890	
MX 6.737		0.		0.		6.890	
SM 29508.449		-853478208.		-388728000.		30176.754	
AV 6.737		-194858.		-88751.		6.890	

ENTECH ENGINEERING  
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EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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MMDDHH	AHU-9 TOT HTG COIL PWR BTU/HR	AHU-9 SUPPLY ELECTRIC KW	AHU-9 HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (JAN)			
MN	-183846.	3.239	-173597.
MX	-61575.	3.239	-173597.
SM	-54135788.	1205.071	-64578088.
AV	-145526.	3.239	-173597.
MONTHLY SUMMARY (FEB)			
MN	-195752.	3.239	-173597.
MX	-72539.	3.239	-173597.
SM	-51037600.	1088.451	-58328596.
AV	-151898.	3.239	-173597.
MONTHLY SUMMARY (MAR)			
MN	-193194.	3.239	-173597.
MX	-37414.	3.239	-173597.
SM	-54983952.	1205.071	-64578088.
AV	-147806.	3.239	-173597.
MONTHLY SUMMARY (APR)			
MN	-189223.	3.239	-173597.
MX	-22765.	3.239	-173597.
SM	-45359340.	1166.197	-62494924.
AV	-125998.	3.239	-173597.
MONTHLY SUMMARY (MAY)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (JUN)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1166.197	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (JUL)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.

	AHU-9	AHU-9	AHU-9
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (SEP)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1166.197	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (OCT)			
MN	-185342.	3.239	-173597.
MX	0.	3.239	0.
SM	-10280489.	1205.071	-33330626.
AV	-27636.	3.239	-89598.
MONTHLY SUMMARY (NOV)			
MN	-186390.	3.239	-173597.
MX	-10.	3.239	-173597.
SM	-30510266.	1166.197	-62494924.
AV	-84751.	3.239	-173597.
MONTHLY SUMMARY (DEC)			
MN	-183873.	3.239	-173597.
MX	-33.	3.239	-173597.
SM	-48585016.	1205.071	-64578088.
AV	-130605.	3.239	-173597.
YEARLY SUMMARY			
MN	-195752.	3.239	-173597.
MX	0.	3.239	0.
SM	-294892480.	14188.732	-410383328.
AV	-67327.	3.239	-93695.

WEATHER FILE- BALTIMORE, MD

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ENTECH ENGINEERING  
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REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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MONTH	S I T E E N E R G Y												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRLBL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	722.4	0.0	351.0 102.8E	0.0	0.0	0.0	0.0 0.0E	1029.7	44.9 13.1E	0.0	1029.7	1380.7	2083.8
FEB	635.5	0.0	318.5 93.3E	0.0	0.0	0.0	0.0 0.0E	914.2	41.2 12.1E	0.0	914.2	1232.7	1870.6
MAR	536.2	0.0	359.5 105.3E	0.0	0.0	0.0	0.0 0.0E	787.2	39.9 11.7E	0.0	787.2	1146.6	1866.6
APR	317.0	0.0	325.4 95.3E	0.0	0.0	0.0	0.0 0.0E	479.5	29.9 8.7E	0.0	479.5	805.0	1456.8
MAY	0.0	161.4	475.1 139.1E	0.0	0.0	0.0	128.6 37.7E	0.0	0.0 0.0E	0.0	0.0	475.1	1426.6
JUN	0.0	401.2	535.6 156.9E	0.0	0.0	0.0	210.6 61.7E	0.0	0.0 0.0E	0.0	0.0	535.6	1608.4
JUL	0.0	585.8	567.7 166.3E	0.0	0.0	0.0	270.8 79.3E	0.0	0.0 0.0E	0.0	0.0	567.7	1704.8
AUG	0.0	554.9	589.9 172.8E	0.0	0.0	0.0	258.2 75.6E	0.0	0.0 0.0E	0.0	0.0	589.9	1771.6
SEP	0.0	306.3	507.7 148.7E	0.0	0.0	0.0	174.5 51.1E	0.0	0.0 0.0E	0.0	0.0	507.7	1524.7
OCT	153.7	185.9	470.2 137.7E	0.0	0.0	0.0	133.7 39.2E	234.4	15.3 4.5E	0.0	234.4	704.7	1646.6
NOV	400.6	0.0	317.4 92.9E	0.0	0.0	0.0	0.0 0.0E	581.9	30.8 9.0E	0.0	581.9	899.3	1535.0
DEC	655.1	0.0	346.0 101.3E	0.0	0.0	0.0	0.0 0.0E	938.5	42.5 12.4E	0.0	938.5	1284.4	1977.4
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	3420.5	2195.4	5164.0 1512.4E	0.0	0.0	0.0	1176.5 344.6E	4965.4	244.5 71.6E	0.0	4965.4	10129.5	20473.0

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING      BZDOS - ELITE SOFTWARE DEVELOPMENT INC      DOR-2.1D 12/11/1995      13:51:29 PDL RUN 1  
 READING, PA 19603      FT. GEORGE G. MEADE      EMCS STUDY  
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE      WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	351.027	1029.682
JAN	PEAK (KBTU)	1224.857	3832.216
	DY/HR	31/17	10/ 7
	TOTAL (MBTU)	318.479	914.243
FEB	PEAK (KBTU)	1224.857	3813.680
	DY/HR	28/13	2/ 7
	TOTAL (MBTU)	359.460	787.157
MAR	PEAK (KBTU)	1224.857	3781.433
	DY/HR	31/17	15/ 7
	TOTAL (MBTU)	325.438	479.516
APR	PEAK (KBTU)	1224.857	3710.000
	DY/HR	29/ 9	4/ 7
	TOTAL (MBTU)	475.063	0.000
MAY	PEAK (KBTU)	1751.475	0.000
	DY/HR	26/16	31/ 1
	TOTAL (MBTU)	535.593	0.000
JUN	PEAK (KBTU)	2074.361	0.000
	DY/HR	29/16	30/ 1
	TOTAL (MBTU)	567.706	0.000
JUL	PEAK (KBTU)	2383.299	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	589.944	0.000
AUG	PEAK (KBTU)	2355.303	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	507.737	0.000
SEP	PEAK (KBTU)	2047.204	0.000
	DY/HR	2/14	30/ 1
	TOTAL (MBTU)	470.248	234.416
OCT	PEAK (KBTU)	1783.103	3869.026
	DY/HR	18/15	17/ 7
	TOTAL (MBTU)	317.366	581.939
NOV	PEAK (KBTU)	1224.857	3864.251
	DY/HR	30/17	21/ 7
	TOTAL (MBTU)	345.968	938.474
DEC	PEAK (KBTU)	1224.857	3794.358
	DY/HR	30/17	6/ 7
	ONE YEAR	5164.029	4965.426
	USE/PEAK	2383.299	3869.026

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	3420.5	100.0
	-----	-----
LOAD SATISFIED	3420.5	100.0
TOTAL LOAD ON PLANT	3420.5	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	2195.5	100.0
	-----	-----
LOAD SATISFIED	2195.5	100.0
TOTAL LOAD ON PLANT	2195.5	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	5164.0	100.0
	-----	-----
LOAD SATISFIED	5164.0	100.0
TOTAL LOAD ON PLANT	5164.1	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 12/11/1995 13:51:29 PDL RUN 1  
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3420.5	3420.5	0.000	0.000	0
COOLING LOADS	2195.5	2195.5	0.000	0.000	0
ELECTRICAL LOADS	5164.1	5164.0	0.000	0.000	0

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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 EMCS STUDY  
 WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
			DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.190	2.976	10	17	7	3.800	4728							
HERM-REC-CHLR	0.178	2.804	8	18	17	2.800	4397							

ENTTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D 12/11/1995      13:51:29 PDL RUN 1  
 READING, PA 19603      FT. GEORGE G. MEADE      EMCS STUDY  
 REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS      WEATHER FILE- BALTIMORE, MD

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E Q U I P M E N T      T O T A L S

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HW-BOILER	95.7		
NOMINAL SIZE (MBTU)		3.800	
NUMBER INSTALLED		1	
FIRST COST (K\$)	86.8	86.8	
ANNUAL COST (K\$)	1.1	1.1	
CYCLICAL COST (K\$)	7.8	7.8	
-----TOTAL----- (K\$)		95.7	
HERM-REC-CHLR	107.2		
NOMINAL SIZE (MBTU)		2.800	
NUMBER INSTALLED		2	
FIRST COST (K\$)	90.5	90.5	
ANNUAL COST (K\$)	10.9	10.9	
CYCLICAL COST (K\$)	5.8	5.8	
-----TOTAL----- (K\$)		107.2	
EQUIPMENT TOTAL	202.8		

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	183.39	4965.32
SPACE COOL	825.33	0.00
HVAC AUX	1388.67	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	1913.29	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	853.30	0.00
	-----	-----
TOTAL	5163.98	4965.32

TOTAL SITE ENERGY      10129.46 MBTU      83.6 KBTU/SQFT-YR GROSS-AREA      83.6 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY      20473.02 MBTU      168.9 KBTU/SQFT-YR GROSS-AREA      168.9 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 63.8  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED      = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

HOURLY DATA FILE 2FROM PROG 3

ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 - HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

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MMDDHH	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR CONDENS FAN ELEC BTU/HR	HW-BOILE R LOAD BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR
	---- ( 3 )	---- ( 1 )	---- (18)	---- ( 1 )	---- ( 4 )	---- ( 3 )
MONTHLY SUMMARY (JAN)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	2942214.	3832216.	83600.
SM	0.	0.	0.	722364992.	1029684736.	35241144.
AV	0.	0.	0.	970921.	1383985.	47367.
MONTHLY SUMMARY (FEB)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	2925252.	3813680.	83600.
SM	0.	0.	0.	635529216.	914245760.	32522426.
AV	0.	0.	0.	945728.	1360485.	48396.
MONTHLY SUMMARY (MAR)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	2895776.	3781433.	83600.
SM	0.	0.	0.	536214080.	787158464.	30304120.
AV	0.	0.	0.	720718.	1058009.	40731.
MONTHLY SUMMARY (APR)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	2830627.	3710000.	83600.
SM	0.	0.	0.	316962816.	479514816.	20575432.
AV	0.	0.	0.	440226.	665993.	28577.
MONTHLY SUMMARY (MAY)						
MN	55876.	127958.	14331.	0.	0.	0.
MX	543182.	1576978.	78400.	0.	0.	0.
SM	69129320.	161357264.	15730823.	0.	0.	0.
AV	92916.	216878.	21144.	0.	0.	0.
MONTHLY SUMMARY (JUN)						
MN	55876.	127958.	14331.	0.	0.	0.
MX	866068.	2574319.	78400.	0.	0.	0.
SM	153028704.	401181344.	25296698.	0.	0.	0.
AV	212540.	557196.	35134.	0.	0.	0.
MONTHLY SUMMARY (JUL)						
MN	55876.	127958.	14331.	0.	0.	0.
MX	1175006.	2773377.	156800.	0.	0.	0.
SM	211282240.	585778560.	31744514.	0.	0.	0.
AV	283982.	787337.	42667.	0.	0.	0.



ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	HW-BOILER R LOAD BTU/HR	HW-BOILER R FUEL USE BTU/HR	HW-BOILER R ELECTRIC USE BTU/HR
	---- ( 3 )	---- ( 1 )	---- (18)	---- ( 1 )	---- ( 4 )	---- ( 3 )
MONTHLY SUMMARY (AUG)						
MN	55876.	127958.	14331.	0.	0.	0.
MX	1147010.	2803607.	156800.	0.	0.	0.
SM	198758160.	554925952.	29856962.	0.	0.	0.
AV	267148.	745868.	40130.	0.	0.	0.
MONTHLY SUMMARY (SEP)						
MN	55876.	127958.	14331.	0.	0.	0.
MX	838911.	2554309.	78400.	0.	0.	0.
SM	116966288.	306268160.	20905994.	0.	0.	0.
AV	162453.	425372.	29036.	0.	0.	0.
MONTHLY SUMMARY (OCT)						
MN	0.	0.	0.	0.	0.	0.
MX	542373.	1566562.	78400.	2975940.	3869026.	83600.
SM	76176904.	185888992.	17521260.	153704544.	234415136.	10350354.
AV	102388.	249851.	23550.	206592.	315074.	13912.
MONTHLY SUMMARY (NOV)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	2971562.	3864251.	83600.
SM	0.	0.	0.	400629056.	581938624.	21548870.
AV	0.	0.	0.	556429.	808248.	29929.
MONTHLY SUMMARY (DEC)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	2907585.	3794358.	83600.
SM	0.	0.	0.	655065792.	938475840.	32845696.
AV	0.	0.	0.	880465.	1261392.	44147.
YEARLY SUMMARY						
MN	0.	0.	0.	0.	0.	0.
MX	1175006.	2803607.	156800.	2975940.	3869026.	83600.
SM	825341568.	2195400192.	141056240.	3420470272.	4965433344.	183388032.
AV	94217.	250616.	16102.	390465.	566830.	20935.

131-27115 1550  
W/NIGHT RETRACK 1 SENT  
FILE: FTAD4550

ENTECH ENGINEERING READING, PA 19603 H-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 12/11/1995 EMCS STUDY		9:17:44 SDL RUN 1
PAGE 1- 1								
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-3	AHU-3
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	-535264.	8.744	-468586.	-335290.	5.827	-312286.	-345092.	5.998
MX	-33.	8.744	-468586.	-33.	5.827	-312286.	-29.	5.998
SM	-112741712.	3252.818	-174314064.	-62952272.	2167.817	-116170392.	-63810100.	2231.126
AV	-303069.	8.744	-468586.	-169227.	5.827	-312286.	-171533.	5.998
MONTHLY SUMMARY (FEB)								
MN	-537499.	8.744	-468586.	-335604.	5.827	-312286.	-345423.	5.998
MX	-24.	8.744	-468586.	-24.	5.827	-312286.	-24.	5.998
SM	-97279520.	2938.029	-157444944.	-53921704.	1958.028	-104928096.	-54620408.	2015.211
AV	-289522.	8.744	-468586.	-160481.	5.827	-312286.	-162561.	5.998
MONTHLY SUMMARY (MAR)								
MN	-534926.	8.744	-468586.	-335438.	5.827	-312286.	-345315.	5.998
MX	-8.	8.744	-468586.	-7.	5.827	-312286.	-7.	5.998
SM	-86608048.	3252.818	-174314064.	-43414260.	2167.817	-116170392.	-43849988.	2231.126
AV	-232817.	8.744	-468586.	-116705.	5.827	-312286.	-117876.	5.998
MONTHLY SUMMARY (APR)								
MN	-517942.	8.744	-468586.	-324569.	5.827	-312286.	-328755.	5.998
MX	-2.	8.744	-468586.	0.	5.827	-312286.	0.	5.998
SM	-50651176.	3147.888	-168691024.	-21140704.	2097.887	-112422960.	-21473688.	2159.155
AV	-140698.	8.744	-468586.	-58724.	5.827	-312286.	-59649.	5.998
MONTHLY SUMMARY (MAY)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998
MONTHLY SUMMARY (JUN)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	3147.888	0.	0.	2097.887	0.	0.	2159.155
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998
MONTHLY SUMMARY (JUL)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998

	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-3	AHU-3
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998
MONTHLY SUMMARY (SEP)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	3147.888	0.	0.	2097.887	0.	0.	2159.155
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998
MONTHLY SUMMARY (OCT)								
MN	-503610.	8.744	-468586.	-328334.	5.827	-312286.	-329299.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	-27708748.	3252.818	-89968528.	-12849059.	2167.817	-59958912.	-13005426.	2231.126
AV	-74486.	8.744	-241851.	-34540.	5.827	-161180.	-34961.	5.998
MONTHLY SUMMARY (NOV)								
MN	-537177.	8.744	-468586.	-358010.	5.827	-312286.	-368464.	5.998
MX	0.	8.744	-468586.	0.	5.827	-312286.	0.	5.998
SM	-70191120.	3147.888	-168691024.	-36481672.	2097.887	-112422960.	-37002572.	2159.155
AV	-194975.	8.744	-468586.	-101338.	5.827	-312286.	-102785.	5.998
MONTHLY SUMMARY (DEC)								
MN	-535160.	8.744	-468586.	-335241.	5.827	-312286.	-345468.	5.998
MX	-33.	8.744	-468586.	-33.	5.827	-312286.	-33.	5.998
SM	-106972032.	3252.818	-174314064.	-59950304.	2167.817	-116170392.	-61025792.	2231.126
AV	-287559.	8.744	-468586.	-161157.	5.827	-312286.	-164048.	5.998
YEARLY SUMMARY								
MN	-537499.	8.744	-468586.	-358010.	5.827	-312286.	-368464.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	-552152320.	38299.309	-1107737728.	-290709984.	25524.291	-738244096.	-294787968.	26269.715
AV	-126062.	8.744	-252908.	-66372.	5.827	-168549.	-67303.	5.998

MMDDHH	AHU-3	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-6
	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)
MONTHLY SUMMARY (JAN)								
MN	-321406.	-335290.	5.827	-312286.	-345092.	5.998	-321406.	-386159.
MX	-321406.	-33.	5.827	-312286.	-29.	5.998	-321406.	-10881.
SM	-119563040.	-62952272.	2167.817	-116170392.	-63810100.	2231.126	-119563040.	-81333248.
AV	-321406.	-169227.	5.827	-312286.	-171533.	5.998	-321406.	-218638.
MONTHLY SUMMARY (FEB)								
MN	-321406.	-335604.	5.827	-312286.	-345423.	5.998	-321406.	-387661.
MX	-321406.	-24.	5.827	-312286.	-24.	5.998	-321406.	-398.
SM	-107992424.	-53921704.	1958.028	-104928096.	-54620408.	2015.211	-107992424.	-69497976.
AV	-321406.	-160481.	5.827	-312286.	-162561.	5.998	-321406.	-206839.
MONTHLY SUMMARY (MAR)								
MN	-321406.	-335438.	5.827	-312286.	-345315.	5.998	-321406.	-381598.
MX	-321406.	-7.	5.827	-312286.	-7.	5.998	-321406.	-7.
SM	-119563040.	-43414260.	2167.817	-116170392.	-43849988.	2231.126	-119563040.	-58306768.
AV	-321406.	-116705.	5.827	-312286.	-117876.	5.998	-321406.	-156739.
MONTHLY SUMMARY (APR)								
MN	-321406.	-324569.	5.827	-312286.	-328755.	5.998	-321406.	-370271.
MX	-321406.	0.	5.827	-312286.	0.	5.998	-321406.	0.
SM	-115706168.	-21140704.	2097.887	-112422960.	-21473688.	2159.155	-115706168.	-30901120.
AV	-321406.	-58724.	5.827	-312286.	-59649.	5.998	-321406.	-85836.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2097.887	0.	0.	2159.155	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.

ENTECH ENGINEERING READING, PA 19603 - HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE		DOE-2.1D 12/11/1995 EMCS STUDY		9:17:44 SDL RUN 1	
H-1	PAGE 2- 2							
	AHU-3	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-6
	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2097.887	0.	0.	2159.155	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (OCT)								
MN	-321406.	-328334.	5.827	-312286.	-329299.	5.998	-321406.	-377360.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	-61709956.	-12849059.	2167.817	-59958912.	-13005426.	2231.126	-61709956.	-18102346.
AV	-165887.	-34540.	5.827	-161180.	-34961.	5.998	-165887.	-48662.
MONTHLY SUMMARY (NOV)								
MN	-321406.	-358010.	5.827	-312286.	-368464.	5.998	-321406.	-413887.
MX	-321406.	0.	5.827	-312286.	0.	5.998	-321406.	0.
SM	-115706168.	-36481672.	2097.887	-112422960.	-37002572.	2159.155	-115706168.	-49118012.
AV	-321406.	-101338.	5.827	-312286.	-102785.	5.998	-321406.	-136439.
MONTHLY SUMMARY (DEC)								
MN	-321406.	-335241.	5.827	-312286.	-345468.	5.998	-321406.	-382155.
MX	-321406.	-33.	5.827	-312286.	-33.	5.998	-321406.	-27755.
SM	-119563040.	-59950304.	2167.817	-116170392.	-61025792.	2231.126	-119563040.	-77724544.
AV	-321406.	-161157.	5.827	-312286.	-164048.	5.998	-321406.	-208937.
YEARLY SUMMARY								
MN	-321406.	-358010.	5.827	-312286.	-368464.	5.998	-321406.	-413887.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	-759803776.	-290709984.	25524.291	-738244096.	-294787968.	26269.715	-759803776.	-384984032.
AV	-173471.	-66372.	5.827	-168549.	-67303.	5.998	-173471.	-87896.

MMDDHH	AHU-6	AHU-6	AHU-7	AHU-7	AHU-7	AHU-8	AHU-8	AHU-8
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	----(49)	----(78)	----( 5)	----(49)	----(78)	----( 5)	----(49)	----(78)
MONTHLY SUMMARY (JAN)								
MN	6.737	-361032.	-395193.	6.890	-369208.	-202527.	2.758	-179073.
MX	6.737	-361032.	-7636.	6.890	-369208.	-51361.	2.758	-179073.
SM	2506.197	-134303680.	-82004208.	2562.957	-137345424.	-55167116.	1026.056	-66615256.
AV	6.737	-361031.	-220441.	6.890	-369208.	-148299.	2.758	-179073.
MONTHLY SUMMARY (FEB)								
MN	6.737	-361032.	-395894.	6.890	-369208.	-202503.	2.758	-179073.
MX	6.737	-361032.	-635.	6.890	-369208.	-72501.	2.758	-179073.
SM	2263.662	-121306544.	-70007592.	2314.929	-124053936.	-52434888.	926.760	-60168616.
AV	6.737	-361031.	-208356.	6.890	-369208.	-156056.	2.758	-179073.
MONTHLY SUMMARY (MAR)								
MN	6.737	-361032.	-390235.	6.890	-369208.	-203116.	2.758	-179073.
MX	6.737	-361032.	-7.	6.890	-369208.	-33183.	2.758	-179073.
SM	2506.197	-134303680.	-58565252.	2562.957	-137345424.	-56696816.	1026.056	-66615256.
AV	6.737	-361031.	-157433.	6.890	-369208.	-152411.	2.758	-179073.
MONTHLY SUMMARY (APR)								
MN	6.737	-361032.	-376615.	6.890	-369208.	-201245.	2.758	-179073.
MX	6.737	-361032.	0.	6.890	-369208.	-19027.	2.758	-179073.
SM	2425.352	-129971296.	-31243602.	2480.281	-132914928.	-46331384.	992.958	-64466376.
AV	6.737	-361031.	-86788.	6.890	-369208.	-128698.	2.758	-179073.
MONTHLY SUMMARY (MAY)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2506.197	0.	0.	2562.957	0.	0.	1026.056	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.
MONTHLY SUMMARY (JUN)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2425.352	0.	0.	2480.281	0.	0.	992.958	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.
MONTHLY SUMMARY (JUL)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2506.197	0.	0.	2562.957	0.	0.	1026.056	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.

	AHU-6	AHU-6	AHU-7	AHU-7	AHU-7	AHU-8	AHU-8	AHU-8
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2506.197	0.	0.	2562.957	0.	0.	1026.056	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.
MONTHLY SUMMARY (SEP)								
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2425.352	0.	0.	2480.281	0.	0.	992.958	0.
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.
MONTHLY SUMMARY (OCT)								
MN	6.737	-361032.	-378840.	6.890	-369208.	-189252.	2.758	-179073.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	2506.197	-69318032.	-18213134.	2562.957	-70887984.	-8968751.	1026.056	-34382056.
AV	6.737	-186339.	-48960.	6.890	-190559.	-24110.	2.758	-92425.
MONTHLY SUMMARY (NOV)								
MN	6.737	-361032.	-423260.	6.890	-369208.	-190327.	2.758	-179073.
MX	6.737	-361032.	0.	6.890	-369208.	-16.	2.758	-179073.
SM	2425.352	-129971296.	-49527032.	2480.281	-132914928.	-28505616.	992.958	-64466376.
AV	6.737	-361031.	-137575.	6.890	-369208.	-79182.	2.758	-179073.
MONTHLY SUMMARY (DEC)								
MN	6.737	-361032.	-389849.	6.890	-369208.	-200480.	2.758	-179073.
MX	6.737	-361032.	-28244.	6.890	-369208.	-36.	2.758	-179073.
SM	2506.197	-134303680.	-78604688.	2562.957	-137345424.	-47733592.	1026.056	-66615256.
AV	6.737	-361031.	-211303.	6.890	-369208.	-128316.	2.758	-179073.
YEARLY SUMMARY								
MN	6.737	-361032.	-423260.	6.890	-369208.	-203116.	2.758	-179073.
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.
SM	29508.449	-853478208.	-388165504.	30176.754	-872808064.	-295838176.	12080.984	-423329184.
AV	6.737	-194858.	-88622.	6.890	-199271.	-67543.	2.758	-96651.

MMDDHH	AHU-9	AHU-9	AHU-9
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	----(49)	----(78)
MONTHLY SUMMARY (JAN)			
MN	-237854.	3.239	-210316.
MX	-48961.	3.239	-210316.
SM	-62827648.	1205.071	-78237464.
AV	-168892.	3.239	-210316.
MONTHLY SUMMARY (FEB)			
MN	-238569.	3.239	-210316.
MX	-71862.	3.239	-210316.
SM	-59771052.	1088.451	-70666088.
AV	-177890.	3.239	-210316.
MONTHLY SUMMARY (MAR)			
MN	-238546.	3.239	-210316.
MX	-24460.	3.239	-210316.
SM	-64518688.	1205.071	-78237464.
AV	-173437.	3.239	-210316.
MONTHLY SUMMARY (APR)			
MN	-237779.	3.239	-210316.
MX	-40.	3.239	-210316.
SM	-51247936.	1166.197	-75713672.
AV	-142355.	3.239	-210316.
MONTHLY SUMMARY (MAY)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (JUN)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1166.197	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (JUL)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.



ENTECH ENGINEERING  
READING, PA 19603  
H-1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOB-2.1D 12/11/1995  
EMCS STUDY

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	AHU-9	AHU-9	AHU-9
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5 )	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (SEP)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1166.197	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (OCT)			
MN	-222258.	3.239	-210316.
MX	0.	3.239	0.
SM	-10594954.	1205.071	-40380628.
AV	-28481.	3.239	-108550.
MONTHLY SUMMARY (NOV)			
MN	-223521.	3.239	-210316.
MX	-16.	3.239	-210316.
SM	-32387676.	1166.197	-75713672.
AV	-89966.	3.239	-210316.
MONTHLY SUMMARY (DEC)			
MN	-234829.	3.239	-210316.
MX	-39.	3.239	-210316.
SM	-53715720.	1205.071	-78237464.
AV	-144397.	3.239	-210316.
YEARLY SUMMARY			
MN	-238569.	3.239	-210316.
MX	0.	3.239	0.
SM	-335063680.	14188.732	-497186464.
AV	-76499.	3.239	-113513.

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EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

[illegible]

MONTH	SITE ENERGY												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRD ENERGY	WASTED RCVRBL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	707.1	0.0	348.6 102.1E	0.0	0.0	0.0	0.0 0.0E	1000.9	42.9 12.6E	0.0	1000.9	1349.5	2047.7
FEB	618.1	0.0	315.4 92.4E	0.0	0.0	0.0	0.0 0.0E	882.4	39.2 11.5E	0.0	882.4	1197.8	1829.6
MAR	536.6	0.0	357.4 104.7E	0.0	0.0	0.0	0.0 0.0E	779.6	38.5 11.3E	0.0	779.6	1137.0	1852.8
APR	323.4	0.0	325.0 95.2E	0.0	0.0	0.0	0.0 0.0E	485.5	29.6 8.7E	0.0	485.5	810.5	1461.4
MAY	0.0	186.8	476.5 139.6E	0.0	0.0	0.0	137.5 40.3E	0.0	0.0 0.0E	0.0	0.0	476.5	1430.9
JUN	0.0	421.1	532.0 155.8E	0.0	0.0	0.0	216.9 63.5E	0.0	0.0 0.0E	0.0	0.0	532.0	1597.7
JUL	0.0	587.5	567.9 166.3E	0.0	0.0	0.0	271.0 79.4E	0.0	0.0 0.0E	0.0	0.0	567.9	1705.4
AUG	0.0	571.3	589.1 172.5E	0.0	0.0	0.0	262.5 76.9E	0.0	0.0 0.0E	0.0	0.0	589.1	1769.1
SEP	0.0	346.4	505.0 147.9E	0.0	0.0	0.0	188.5 55.2E	0.0	0.0 0.0E	0.0	0.0	505.0	1516.5
OCT	146.0	220.6	475.9 139.4E	0.0	0.0	0.0	147.1 43.1E	222.0	14.7 4.3E	0.0	222.0	697.9	1651.2
NOV	399.2	0.0	316.9 92.8E	0.0	0.0	0.0	0.0 0.0E	577.6	30.4 8.9E	0.0	577.6	894.4	1529.1
DEC	644.3	0.0	343.9 100.7E	0.0	0.0	0.0	0.0 0.0E	915.9	40.7 11.9E	0.0	915.9	1259.8	1948.7
	3374.7	2333.7	5153.6 1509.4E	0.0	0.0	0.0	1223.4 358.3E	4863.9	235.9 69.1E	0.0	4863.9	10017.5	20340.2

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	348.582	1000.895
JAN	PEAK (KBTU)	1224.857	4046.859
	DY/HR	31/17	24/ 7
	TOTAL (MBTU)	315.409	882.404
FEB	PEAK (KBTU)	1224.857	4054.244
	DY/HR	28/14	22/ 7
	TOTAL (MBTU)	357.354	779.637
MAR	PEAK (KBTU)	1224.857	4030.147
	DY/HR	31/17	7/ 7
	TOTAL (MBTU)	324.968	485.541
APR	PEAK (KBTU)	1224.857	3932.164
	DY/HR	29/ 9	4/ 7
	TOTAL (MBTU)	476.498	0.000
MAY	PEAK (KBTU)	1786.818	0.000
	DY/HR	6/17	31/ 1
	TOTAL (MBTU)	532.033	0.000
JUN	PEAK (KBTU)	2070.927	0.000
	DY/HR	29/16	30/ 1
	TOTAL (MBTU)	567.905	0.000
JUL	PEAK (KBTU)	2380.704	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	589.122	0.000
AUG	PEAK (KBTU)	2356.959	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	504.998	0.000
SEP	PEAK (KBTU)	2047.190	0.000
	DY/HR	2/14	30/ 1
	TOTAL (MBTU)	475.942	221.967
OCT	PEAK (KBTU)	1787.435	3905.944
	DY/HR	18/15	24/ 7
	TOTAL (MBTU)	316.869	577.580
NOV	PEAK (KBTU)	1224.857	4178.415
	DY/HR	30/17	28/ 7
	TOTAL (MBTU)	343.941	915.874
DEC	PEAK (KBTU)	1224.857	4027.186
	DY/HR	30/17	19/ 7
	ONE YEAR	5153.622	4863.899
	USE/PEAK	2380.704	4178.415

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 12/11/1995  
EMCS STUDY

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WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	3374.7	100.0
LOAD SATISFIED	3374.7	100.0
TOTAL LOAD ON PLANT	3374.7	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	2333.8	100.0
LOAD SATISFIED	2333.8	100.0
TOTAL LOAD ON PLANT	2333.8	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	5153.6	100.0
LOAD SATISFIED	5153.6	100.0
TOTAL LOAD ON PLANT	5153.6	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 12/11/1995  
EMCS STUDY

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WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3374.7	3374.7	0.000	0.000	0
COOLING LOADS	2333.8	2333.8	0.000	0.000	0
ELECTRICAL LOADS	5153.6	5153.6	0.000	0.000	0

E Q U I P M E N T	AVG	MAX	MON			SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
	OPER	LOAD	DAY			SIZE	OPER	SIZE	OPER	SIZE	OPER	SIZE	OPER
	RATIO	(MBTU)		HR		(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.188	3.262	11	28	7	3.800	4728						
HERM-REC-CHLR	0.190	2.810	8	18	17	2.800	4396						

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 12/11/1995 9:17:44 PDL RUN 1  
EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

HW-BOILER	95.7		
NOMINAL SIZE (MBTU)		3.800	
NUMBER INSTALLED		1	
FIRST COST (K\$)	86.8	86.8	
ANNUAL COST (K\$)	1.1	1.1	
CYCLICAL COST (K\$)	7.8	7.8	
-----TOTAL----- (K\$)		95.7	
HERM-REC-CHLR	107.2		
NOMINAL SIZE (MBTU)		2.800	
NUMBER INSTALLED		2	
FIRST COST (K\$)	90.5	90.5	
ANNUAL COST (K\$)	10.9	10.9	
CYCLICAL COST (K\$)	5.8	5.8	
-----TOTAL----- (K\$)		107.2	
EQUIPMENT TOTAL	202.8		



ENTECH ENGINEERING      E2DOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D 12/11/1995      9:17:44 PDL RUN 1  
 READING, PA 19603      FT. GEORGE G. MEADE      EMCS STUDY  
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE      WEATHER FILE- BALTIMORE, MD

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ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	174.79	4863.80
SPACE COOL	872.24	0.00
HVAC AUX	1339.96	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	1913.30	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	853.30	0.00
	-----	-----
TOTAL	5153.59	4863.80

TOTAL SITE ENERGY	10017.52 MBTU	82.7 KBTU/SQFT-YR GROSS-AREA	82.7 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	20340.24 MBTU	167.8 KBTU/SQFT-YR GROSS-AREA	167.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 57.1  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

HOURLY DATA FILE 2FROM PROG 3

MMDDHH	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR CONDENS FAN ELEC BTU/HR	HW-BOILE R LOAD BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR
	----( 3)	----( 1)	----(18)	----( 1)	----( 4)	----( 3)
MONTHLY SUMMARY (JAN)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3139644.	4046859.	83600.
SM	0.	0.	0.	707061056.	1000897728.	33310870.
AV	0.	0.	0.	950351.	1345293.	44773.
MONTHLY SUMMARY (FEB)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3146471.	4054244.	83600.
SM	0.	0.	0.	618127360.	882406848.	30478252.
AV	0.	0.	0.	919832.	1313105.	45355.
MONTHLY SUMMARY (MAR)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3124205.	4030147.	83600.
SM	0.	0.	0.	536580768.	779638720.	28861052.
AV	0.	0.	0.	721211.	1047902.	38792.
MONTHLY SUMMARY (APR)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3033914.	3932164.	83600.
SM	0.	0.	0.	323352128.	485540256.	20318444.
AV	0.	0.	0.	449100.	674361.	28220.
MONTHLY SUMMARY (MAY)						
MN	55877.	127958.	14331.	0.	0.	0.
MX	578525.	1649051.	78400.	0.	0.	0.
SM	77972288.	186799776.	17196164.	0.	0.	0.
AV	104801.	251075.	23113.	0.	0.	0.
MONTHLY SUMMARY (JUN)						
MN	55877.	127958.	14331.	0.	0.	0.
MX	862634.	2556978.	78400.	0.	0.	0.
SM	159287152.	421134912.	26129076.	0.	0.	0.
AV	221232.	584910.	36290.	0.	0.	0.
MONTHLY SUMMARY (JUL)						
MN	55877.	127958.	14331.	0.	0.	0.
MX	1172411.	2764073.	156800.	0.	0.	0.
SM	211480560.	587472896.	31708070.	0.	0.	0.
AV	284248.	789614.	42618.	0.	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 12/11/1995  
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	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	HW-BOILE R LOAD BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR
	---- ( 3 )	---- ( 1 )	---- (18)	---- ( 1 )	---- ( 4 )	---- ( 3 )
MONTHLY SUMMARY (AUG)						
MN	55877.	127958.	14331.	0.	0.	0.
MX	1148666.	2809784.	156800.	0.	0.	0.
SM	203061488.	571250816.	30172288.	0.	0.	0.
AV	272932.	767810.	40554.	0.	0.	0.
MONTHLY SUMMARY (SEP)						
MN	55877.	127958.	14331.	0.	0.	0.
MX	838896.	2553744.	78400.	0.	0.	0.
SM	130930624.	346440800.	23279312.	0.	0.	0.
AV	181848.	481168.	32332.	0.	0.	0.
MONTHLY SUMMARY (OCT)						
MN	0.	0.	0.	0.	0.	0.
MX	549454.	1583580.	78400.	3009819.	3905944.	83600.
SM	89507552.	220650336.	20056224.	146038768.	221966624.	9694508.
AV	120306.	296573.	26957.	196289.	298342.	13030.
MONTHLY SUMMARY (NOV)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3261586.	4178415.	83600.
SM	0.	0.	0.	399202016.	577579200.	21081216.
AV	0.	0.	0.	554447.	802193.	29279.
MONTHLY SUMMARY (DEC)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3121471.	4027186.	83600.
SM	0.	0.	0.	644309120.	915877120.	31048996.
AV	0.	0.	0.	866007.	1231018.	41733.
YEARLY SUMMARY						
MN	0.	0.	0.	0.	0.	0.
MX	1172411.	2809784.	156800.	3261586.	4178415.	83600.
SM	872239616.	2333749504.	148541136.	3374671360.	4863906816.	174793344.
AV	99571.	266410.	16957.	385236.	555241.	19954.

BUILDING 4550  
 SETBACK VENT, & RESET  
 FILE: FTMD4550

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MMDDHH	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-3	AHU-3		
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW		
	---- ( 5)	----(49)	----(78)	---- ( 5)	----(49)	----(78)	---- ( 5)	----(49)		
MONTHLY SUMMARY (JAN)										
MN	-540626.	8.744	-468586.	-360309.	5.827	-312286.	-370830.	5.998		
MX	-6.	8.744	-468586.	-4.	5.827	-312286.	-4.	5.998		
SM	-109532368.	3252.818	-174314064.	-62984500.	2167.817	-116170392.	-64171812.	2231.126		
AV	-294442.	8.744	-468586.	-169313.	5.827	-312286.	-172505.	5.998		
MONTHLY SUMMARY (FEB)										
MN	-539012.	8.744	-468586.	-359233.	5.827	-312286.	-369723.	5.998		
MX	-2012.	8.744	-468586.	-5.	5.827	-312286.	-3.	5.998		
SM	-93796096.	2938.029	-157444944.	-53835632.	1958.028	-104928096.	-54835416.	2015.211		
AV	-279155.	8.744	-468586.	-160225.	5.827	-312286.	-163201.	5.998		
MONTHLY SUMMARY (MAR)										
MN	-533390.	8.744	-468586.	-356510.	5.827	-312286.	-366920.	5.998		
MX	0.	8.744	-468586.	0.	5.827	-312286.	0.	5.998		
SM	-85381808.	3252.818	-174314064.	-46620136.	2167.817	-116170392.	-47204816.	2231.126		
AV	-229521.	8.744	-468586.	-125323.	5.827	-312286.	-126895.	5.998		
MONTHLY SUMMARY (APR)										
MN	-504038.	8.744	-468586.	-345788.	5.827	-312286.	-350350.	5.998		
MX	0.	8.744	-468586.	0.	5.827	-312286.	0.	5.998		
SM	-50697764.	3147.888	-168691024.	-24560794.	2097.887	-112422960.	-24713418.	2159.155		
AV	-140827.	8.744	-468586.	-68224.	5.827	-312286.	-68648.	5.998		
MONTHLY SUMMARY (MAY)										
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998		
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998		
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126		
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998		
MONTHLY SUMMARY (JUN)										
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998		
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998		
SM	0.	3147.888	0.	0.	2097.887	0.	0.	2159.155		
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998		
MONTHLY SUMMARY (JUL)										
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998		
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998		
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126		
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998		

	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2	AHU-3	AHU-3
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	3252.818	0.	0.	2167.817	0.	0.	2231.126
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998
MONTHLY SUMMARY (SEP)								
MN	0.	8.744	0.	0.	5.827	0.	0.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	0.	3147.888	0.	0.	2097.887	0.	0.	2159.155
AV	0.	8.744	0.	0.	5.827	0.	0.	5.998
MONTHLY SUMMARY (OCT)								
MN	-502903.	8.744	-468586.	-329878.	5.827	-312286.	-331982.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	-22606012.	3252.818	-89968528.	-12031191.	2167.817	-59958912.	-12287959.	2231.126
AV	-60769.	8.744	-241851.	-32342.	5.827	-161180.	-33032.	5.998
MONTHLY SUMMARY (NOV)								
MN	-537177.	8.744	-468586.	-358010.	5.827	-312286.	-368464.	5.998
MX	0.	8.744	-468586.	0.	5.827	-312286.	0.	5.998
SM	-68558976.	3147.888	-168691024.	-38204860.	2097.887	-112422960.	-39045600.	2159.155
AV	-190442.	8.744	-468586.	-106125.	5.827	-312286.	-108460.	5.998
MONTHLY SUMMARY (DEC)								
MN	-535160.	8.744	-468586.	-356666.	5.827	-312286.	-367081.	5.998
MX	-49035.	8.744	-468586.	-4.	5.827	-312286.	-3.	5.998
SM	-103612936.	3252.818	-174314064.	-59125344.	2167.817	-116170392.	-60441212.	2231.126
AV	-278529.	8.744	-468586.	-158939.	5.827	-312286.	-162476.	5.998
YEARLY SUMMARY								
MN	-540626.	8.744	-468586.	-360309.	5.827	-312286.	-370830.	5.998
MX	0.	8.744	0.	0.	5.827	0.	0.	5.998
SM	-534185952.	38299.309	-1107737728.	-297362432.	25524.291	-738244096.	-302700224.	26269.715
AV	-121960.	8.744	-252908.	-67891.	5.827	-168549.	-69110.	5.998

MMDDHH	AHU-3	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-6
	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)
MONTHLY SUMMARY (JAN)								
MN	-321406.	-360309.	5.827	-312286.	-370830.	5.998	-321406.	-416545.
MX	-321406.	-4.	5.827	-312286.	-4.	5.998	-321406.	-6424.
SM	-119563040.	-62984500.	2167.817	-116170392.	-64171812.	2231.126	-119563040.	-79192448.
AV	-321406.	-169313.	5.827	-312286.	-172505.	5.998	-321406.	-212883.
MONTHLY SUMMARY (FEB)								
MN	-321406.	-359233.	5.827	-312286.	-369723.	5.998	-321406.	-414738.
MX	-321406.	-5.	5.827	-312286.	-3.	5.998	-321406.	-1115.
SM	-107992424.	-53835632.	1958.028	-104928096.	-54835416.	2015.211	-107992424.	-67606088.
AV	-321406.	-160225.	5.827	-312286.	-163201.	5.998	-321406.	-201209.
MONTHLY SUMMARY (MAR)								
MN	-321406.	-356510.	5.827	-312286.	-366920.	5.998	-321406.	-409869.
MX	-321406.	0.	5.827	-312286.	0.	5.998	-321406.	0.
SM	-119563040.	-46620136.	2167.817	-116170392.	-47204816.	2231.126	-119563040.	-59381284.
AV	-321406.	-125323.	5.827	-312286.	-126895.	5.998	-321406.	-159627.
MONTHLY SUMMARY (APR)								
MN	-321406.	-345788.	5.827	-312286.	-350350.	5.998	-321406.	-374022.
MX	-321406.	0.	5.827	-312286.	0.	5.998	-321406.	0.
SM	-115706168.	-24560794.	2097.887	-112422960.	-24713418.	2159.155	-115706168.	-33978440.
AV	-321406.	-68224.	5.827	-312286.	-68648.	5.998	-321406.	-94385.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2097.887	0.	0.	2159.155	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.

	AHU-3	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-6
	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)
MONTHLY SUMMARY (AUG)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2167.817	0.	0.	2231.126	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	5.827	0.	0.	5.998	0.	0.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	0.	0.	2097.887	0.	0.	2159.155	0.	0.
AV	0.	0.	5.827	0.	0.	5.998	0.	0.
MONTHLY SUMMARY (OCT)								
MN	-321406.	-329878.	5.827	-312286.	-331982.	5.998	-321406.	-380634.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	-61709956.	-12031191.	2167.817	-59958912.	-12287959.	2231.126	-61709956.	-15694317.
AV	-165887.	-32342.	5.827	-161180.	-33032.	5.998	-165887.	-42189.
MONTHLY SUMMARY (NOV)								
MN	-321406.	-358010.	5.827	-312286.	-368464.	5.998	-321406.	-413887.
MX	-321406.	0.	5.827	-312286.	0.	5.998	-321406.	0.
SM	-115706168.	-38204860.	2097.887	-112422960.	-39045600.	2159.155	-115706168.	-48541308.
AV	-321406.	-106125.	5.827	-312286.	-108460.	5.998	-321406.	-134837.
MONTHLY SUMMARY (DEC)								
MN	-321406.	-356666.	5.827	-312286.	-367081.	5.998	-321406.	-412333.
MX	-321406.	-4.	5.827	-312286.	-3.	5.998	-321406.	-33421.
SM	-119563040.	-59125344.	2167.817	-116170392.	-60441212.	2231.126	-119563040.	-75092288.
AV	-321406.	-158939.	5.827	-312286.	-162476.	5.998	-321406.	-201861.
YEARLY SUMMARY								
MN	-321406.	-360309.	5.827	-312286.	-370830.	5.998	-321406.	-416545.
MX	0.	0.	5.827	0.	0.	5.998	0.	0.
SM	-759803776.	-297362432.	25524.291	-738244096.	-302700224.	26269.715	-759803776.	-379486144.
AV	-173471.	-67891.	5.827	-168549.	-69110.	5.998	-173471.	-86641.

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MMDHH	AHU-6	AHU-6	AHU-7	AHU-7	AHU-7	AHU-8	AHU-8	AHU-8		
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR		
	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)		
MONTHLY SUMMARY (JAN)										
MN	6.737	-361032.	-425978.	6.890	-369208.	-201093.	2.758	-179073.		
MX	6.737	-361032.	-5772.	6.890	-369208.	-30259.	2.758	-179073.		
SM	2506.197	-134303680.	-79994200.	2562.957	-137345424.	-54198420.	1026.056	-66615256.		
AV	6.737	-361031.	-215038.	6.890	-369208.	-145695.	2.758	-179073.		
MONTHLY SUMMARY (FEB)										
MN	6.737	-361032.	-420897.	6.890	-369208.	-201923.	2.758	-179073.		
MX	6.737	-361032.	-1018.	6.890	-369208.	-64674.	2.758	-179073.		
SM	2263.662	-121306544.	-68281824.	2314.929	-124053936.	-51882668.	926.760	-60168616.		
AV	6.737	-361031.	-203220.	6.890	-369208.	-154413.	2.758	-179073.		
MONTHLY SUMMARY (MAR)										
MN	6.737	-361032.	-420480.	6.890	-369208.	-203116.	2.758	-179073.		
MX	6.737	-361032.	0.	6.890	-369208.	-19561.	2.758	-179073.		
SM	2506.197	-134303680.	-60071876.	2562.957	-137345424.	-56002536.	1026.056	-66615256.		
AV	6.737	-361031.	-161484.	6.890	-369208.	-150544.	2.758	-179073.		
MONTHLY SUMMARY (APR)										
MN	6.737	-361032.	-379294.	6.890	-369208.	-202463.	2.758	-179073.		
MX	6.737	-361032.	0.	6.890	-369208.	-10396.	2.758	-179073.		
SM	2425.352	-129971296.	-34346116.	2480.281	-132914928.	-45152384.	992.958	-64466376.		
AV	6.737	-361031.	-95406.	6.890	-369208.	-125423.	2.758	-179073.		
MONTHLY SUMMARY (MAY)										
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.		
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.		
SM	2506.197	0.	0.	2562.957	0.	0.	1026.056	0.		
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.		
MONTHLY SUMMARY (JUN)										
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.		
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.		
SM	2425.352	0.	0.	2480.281	0.	0.	992.958	0.		
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.		
MONTHLY SUMMARY (JUL)										
MN	6.737	0.	0.	6.890	0.	0.	2.758	0.		
MX	6.737	0.	0.	6.890	0.	0.	2.758	0.		
SM	2506.197	0.	0.	2562.957	0.	0.	1026.056	0.		
AV	6.737	0.	0.	6.890	0.	0.	2.758	0.		



ENTECH ENGINEERING		EZDOE - ELITE SOFTWARE DEVELOPMENT INC		DOE-2.1D 12/11/1995		13:32: 3 SDL RUN 1	
READING, PA 19603		FT. GEORGE G. MEADE		EMCS STUDY		PAGE 2- 3	
H-1	= HOURLY-REPORT						
	AHU-6	AHU-6	AHU-7	AHU-7	AHU-7	AHU-8	AHU-8
	SUPPLY	HEATING	TOT HTG	SUPPLY	HEATING	TOT HTG	SUPPLY
	ELECTRIC	CAPACITY	COIL PWR	ELECTRIC	CAPACITY	COIL PWR	ELECTRIC
	KW	BTU/HR	BTU/HR	KW	BTU/HR	BTU/HR	KW
	---- (49)	---- (78)	---- ( 5)	---- (49)	---- (78)	---- ( 5)	---- (49)
	---- (78)						---- (78)
MONTHLY SUMMARY (AUG)							
MN	6.737	0.	0.	6.890	0.	0.	2.758
MX	6.737	0.	0.	6.890	0.	0.	2.758
SM	2506.197	0.	0.	2562.957	0.	0.	1026.056
AV	6.737	0.	0.	6.890	0.	0.	2.758
MONTHLY SUMMARY (SEP)							
MN	6.737	0.	0.	6.890	0.	0.	2.758
MX	6.737	0.	0.	6.890	0.	0.	2.758
SM	2425.352	0.	0.	2480.281	0.	0.	992.958
AV	6.737	0.	0.	6.890	0.	0.	2.758
MONTHLY SUMMARY (OCT)							
MN	6.737	-361032.	-381443.	6.890	-369208.	-189252.	2.758
MX	6.737	0.	0.	6.890	0.	0.	2.758
SM	2506.197	-69318032.	-15824170.	2562.957	-70887984.	-7279922.	1026.056
AV	6.737	-186339.	-42538.	6.890	-190559.	-19570.	2.758
MONTHLY SUMMARY (NOV)							
MN	6.737	-361032.	-423257.	6.890	-369208.	-190431.	2.758
MX	6.737	-361032.	0.	6.890	-369208.	0.	2.758
SM	2425.352	-129971296.	-49313888.	2480.281	-132914928.	-27154988.	992.958
AV	6.737	-361031.	-136983.	6.890	-369208.	-75431.	2.758
MONTHLY SUMMARY (DEC)							
MN	6.737	-361032.	-421671.	6.890	-369208.	-200480.	2.758
MX	6.737	-361032.	-38247.	6.890	-369208.	0.	2.758
SM	2506.197	-134303680.	-75891464.	2562.957	-137345424.	-46492648.	1026.056
AV	6.737	-361031.	-204009.	6.890	-369208.	-124980.	2.758
YEARLY SUMMARY							
MN	6.737	-361032.	-425978.	6.890	-369208.	-203116.	2.758
MX	6.737	0.	0.	6.890	0.	0.	2.758
SM	29508.449	-853478208.	-383723520.	30176.754	-872808064.	-288163552.	12080.984
AV	6.737	-194858.	-87608.	6.890	-199271.	-65791.	2.758

ENTECH ENGINEERING  
READING, PA 19603  
H-1  
HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 12/11/1995 13:32: 3 SDL RUN 1  
EMCS STUDY

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MMDDHH	AHU-9	AHU-9	AHU-9
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (JAN)			
MN	-236467.	3.239	-210316.
MX	-27739.	3.239	-210316.
SM	-61538616.	1205.071	-78237464.
AV	-165426.	3.239	-210316.
MONTHLY SUMMARY (FEB)			
MN	-237144.	3.239	-210316.
MX	-63428.	3.239	-210316.
SM	-58978400.	1088.451	-70666088.
AV	-175531.	3.239	-210316.
MONTHLY SUMMARY (MAR)			
MN	-238546.	3.239	-210316.
MX	-12458.	3.239	-210316.
SM	-63528288.	1205.071	-78237464.
AV	-170775.	3.239	-210316.
MONTHLY SUMMARY (APR)			
MN	-236995.	3.239	-210316.
MX	-8366.	3.239	-210316.
SM	-49731452.	1166.197	-75713672.
AV	-138143.	3.239	-210316.
MONTHLY SUMMARY (MAY)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (JUN)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1166.197	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (JUL)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.

AHU-9		AHU-9	AHU-9
TOT HTG COIL PWR BTU/HR		SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
---- ( 5)		----(49)	----(78)
MONTHLY SUMMARY (AUG)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1205.071	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (SEP)			
MN	0.	3.239	0.
MX	0.	3.239	0.
SM	0.	1166.197	0.
AV	0.	3.239	0.
MONTHLY SUMMARY (OCT)			
MN	-222258.	3.239	-210316.
MX	0.	3.239	0.
SM	-8521327.	1205.071	-40380628.
AV	-22907.	3.239	-108550.
MONTHLY SUMMARY (NOV)			
MN	-223642.	3.239	-210316.
MX	0.	3.239	-210316.
SM	-30775616.	1166.197	-75713672.
AV	-85488.	3.239	-210316.
MONTHLY SUMMARY (DEC)			
MN	-235450.	3.239	-210316.
MX	0.	3.239	-210316.
SM	-52135216.	1205.071	-78237464.
AV	-140148.	3.239	-210316.
YEARLY SUMMARY			
MN	-238546.	3.239	-210316.
MX	0.	3.239	0.
SM	-325208960.	14188.732	-497186464.
AV	-74249.	3.239	-113513.

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EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

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ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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EMCS STUDY

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WEATHER FILE- BALTIMORE, MD

MONTH	S I T E E N E R G Y												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	693.8	0.0	349.0 102.2E	0.0	0.0	0.0	0.0 0.0E	982.5	42.4 12.4E	0.0	982.5	1331.5	2030.6
FEB	605.5	0.0	316.3 92.6E	0.0	0.0	0.0	0.0 0.0E	865.0	38.7 11.3E	0.0	865.0	1181.3	1814.9
MAR	547.7	0.0	358.1 104.9E	0.0	0.0	0.0	0.0 0.0E	792.5	38.4 11.3E	0.0	792.5	1150.6	1868.0
APR	339.1	0.0	325.5 95.3E	0.0	0.0	0.0	0.0 0.0E	505.4	29.9 8.7E	0.0	505.4	830.9	1482.8
MAY	0.0	202.1	470.2 137.7E	0.0	0.0	0.0	143.1 41.9E	0.0	0.0 0.0E	0.0	0.0	470.2	1411.9
JUN	0.0	431.1	532.7 156.0E	0.0	0.0	0.0	219.5 64.3E	0.0	0.0 0.0E	0.0	0.0	532.7	1599.7
JUL	0.0	592.6	569.7 166.9E	0.0	0.0	0.0	272.8 79.9E	0.0	0.0 0.0E	0.0	0.0	569.7	1710.9
AUG	0.0	578.3	589.0 172.5E	0.0	0.0	0.0	264.5 77.5E	0.0	0.0 0.0E	0.0	0.0	589.0	1768.9
SEP	0.0	355.8	499.1 146.2E	0.0	0.0	0.0	191.3 56.0E	0.0	0.0 0.0E	0.0	0.0	499.1	1498.9
OCT	128.9	206.6	462.7 135.5E	0.0	0.0	0.0	142.3 41.7E	194.1	13.2 3.9E	0.0	194.1	656.8	1583.5
NOV	401.0	0.0	317.6 93.0E	0.0	0.0	0.0	0.0 0.0E	580.3	30.5 8.9E	0.0	580.3	897.9	1534.1
DEC	629.0	0.0	345.4 101.2E	0.0	0.0	0.0	0.0 0.0E	896.0	40.3 11.8E	0.0	896.0	1241.4	1933.2
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	3345.1	2366.6	5135.4 1504.0E	0.0	0.0	0.0	1233.4 361.2E	4815.8	233.3 68.3E	0.0	4815.8	9951.2	20237.5

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

EMTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOR-2.1D 12/11/1995 13:32: 3 PDL RUN 1  
EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	349.015	982.492
JAN	PEAK (KBTU)	1224.857	4229.744
	DY/HR	31/17	10/ 7
	TOTAL (MBTU)	316.318	865.022
FEB	PEAK (KBTU)	1224.857	4217.551
	DY/HR	28/17	22/ 7
	TOTAL (MBTU)	358.120	792.518
MAR	PEAK (KBTU)	1224.857	4177.795
	DY/HR	31/17	7/ 7
	TOTAL (MBTU)	325.471	505.407
APR	PEAK (KBTU)	1224.857	4015.645
	DY/HR	29/ 9	4/ 7
	TOTAL (MBTU)	470.177	0.000
MAY	PEAK (KBTU)	1807.657	0.000
	DY/HR	6/17	31/ 1
	TOTAL (MBTU)	532.715	0.000
JUN	PEAK (KBTU)	2076.801	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	569.720	0.000
JUL	PEAK (KBTU)	2382.596	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	589.037	0.000
AUG	PEAK (KBTU)	2357.162	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	499.145	0.000
SEP	PEAK (KBTU)	2047.222	0.000
	DY/HR	2/14	30/ 1
	TOTAL (MBTU)	462.667	194.123
OCT	PEAK (KBTU)	1791.649	3920.592
	DY/HR	13/16	24/ 7
	TOTAL (MBTU)	317.631	580.279
NOV	PEAK (KBTU)	1224.857	4185.006
	DY/HR	30/17	28/ 7
	TOTAL (MBTU)	345.407	895.957
DEC	PEAK (KBTU)	1224.857	4197.096
	DY/HR	30/17	5/ 7
	ONE YEAR	5135.423	4815.797
	USE/PEAK	2382.596	4229.744

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 12/11/1995 13:32: 3 PDL RUN 1  
EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	3345.1	100.0
	-----	-----
LOAD SATISFIED	3345.1	100.0
TOTAL LOAD ON PLANT	3345.1	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	2366.6	100.0
	-----	-----
LOAD SATISFIED	2366.6	100.0
TOTAL LOAD ON PLANT	2366.6	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	5135.4	100.0
	-----	-----
LOAD SATISFIED	5135.4	100.0
TOTAL LOAD ON PLANT	5135.4	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 12/11/1995 13:32: 3 PDL RUN 1  
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3345.1	3345.1	0.000	0.000	0
COOLING LOADS	2366.6	2366.6	0.000	0.000	0
ELECTRICAL LOADS	5135.4	5135.4	0.000	0.000	0



ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

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EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.186	3.309	1 10 7	3.800 4728				
HERM-REC-CHLR	0.192	2.811	8 18 17	2.800 4397				

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 12/11/1995 13:32: 3 PDL RUN 1  
EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT TOTALS

HW-BOILER	95.7	
NOMINAL SIZE (MBTU)		3.800
NUMBER INSTALLED		1
FIRST COST (K\$)	86.8	86.8
ANNUAL COST (K\$)	1.1	1.1
CYCLICAL COST (K\$)	7.8	7.8
-----TOTAL----- (K\$)		95.7
HERM-REC-CHLR	107.2	
NOMINAL SIZE (MBTU)		2.800
NUMBER INSTALLED		2
FIRST COST (K\$)	90.5	90.5
ANNUAL COST (K\$)	10.9	10.9
CYCLICAL COST (K\$)	5.8	5.8
-----TOTAL----- (K\$)		107.2
EQUIPMENT TOTAL	202.8	

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	172.23	4815.69
SPACE COOL	882.24	0.00
HVAC AUX	1314.31	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	1913.30	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	853.30	0.00
	-----	-----
TOTAL	5135.39	4815.69

TOTAL SITE ENERGY      9951.22 MBTU      82.1 KBTU/SQFT-YR GROSS-AREA      82.1 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY      20237.49 MBTU      167.0 KBTU/SQFT-YR GROSS-AREA      167.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 54.4  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED      = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTTECH ENGINEERING  
READING, PA 19603  
HRLY-1 = HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

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EMCS STUDY

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MMDH	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR CONDENS FAN ELEC BTU/HR	HW-BOILE R LOAD BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR
	----( 3)	----( 1)	----(18)	----( 1)	----( 4)	----( 3)
MONTHLY SUMMARY (JAN)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3309360.	4229744.	83600.
SM	0.	0.	0.	693849408.	982494848.	32771800.
AV	0.	0.	0.	932593.	1320558.	44048.
MONTHLY SUMMARY (FEB)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3298001.	4217551.	83600.
SM	0.	0.	0.	605536448.	865023616.	29995112.
AV	0.	0.	0.	901096.	1287238.	44636.
MONTHLY SUMMARY (MAR)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3261009.	4177795.	83600.
SM	0.	0.	0.	547661696.	792519424.	28837508.
AV	0.	0.	0.	736104.	1065214.	38760.
MONTHLY SUMMARY (APR)						
MN	0.	0.	0.	26374.	43099.	2321.
MX	0.	0.	0.	3110817.	4015645.	83600.
SM	0.	0.	0.	339102592.	505405984.	20570868.
AV	0.	0.	0.	470976.	701953.	28571.
MONTHLY SUMMARY (MAY)						
MN	55877.	127958.	14331.	0.	0.	0.
MX	599364.	1683285.	78400.	0.	0.	0.
SM	83580016.	202139328.	18262276.	0.	0.	0.
AV	112339.	271693.	24546.	0.	0.	0.
MONTHLY SUMMARY (JUN)						
MN	55877.	127958.	14331.	0.	0.	0.
MX	868507.	2585964.	78400.	0.	0.	0.
SM	161907904.	431146112.	26314550.	0.	0.	0.
AV	224872.	598814.	36548.	0.	0.	0.
MONTHLY SUMMARY (JUL)						
MN	55877.	127958.	14331.	0.	0.	0.
MX	1174303.	2770856.	156800.	0.	0.	0.
SM	213295568.	592561472.	32016658.	0.	0.	0.
AV	286688.	796454.	43033.	0.	0.	0.

HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	HW-BOILE R LOAD BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR
----( 3)	----( 1)	----(18)	----( 1)	----( 4)	----( 3)
MONTHLY SUMMARY (AUG)					
MN 55877.	127958.	14331.	0.	0.	0.
MX 1148869.	2810543.	156800.	0.	0.	0.
SM 205021616.	578320256.	30373192.	0.	0.	0.
AV 275567.	777312.	40824.	0.	0.	0.
MONTHLY SUMMARY (SEP)					
MN 55877.	127958.	14331.	0.	0.	0.
MX 838929.	2553886.	78400.	0.	0.	0.
SM 133697512.	355776832.	23564024.	0.	0.	0.
AV 185691.	494135.	32728.	0.	0.	0.
MONTHLY SUMMARY (OCT)					
MN 0.	0.	0.	0.	0.	0.
MX 583356.	1666185.	78400.	3023277.	3920592.	83600.
SM 84740656.	206618640.	18969730.	128889480.	194123216.	8207673.
AV 113899.	277713.	25497.	173239.	260918.	11032.
MONTHLY SUMMARY (NOV)					
MN 0.	0.	0.	26374.	43099.	2321.
MX 0.	0.	0.	3267714.	4185006.	83600.
SM 0.	0.	0.	401033536.	580278656.	21172644.
AV 0.	0.	0.	556991.	805943.	29406.
MONTHLY SUMMARY (DEC)					
MN 0.	0.	0.	26374.	43099.	2321.
MX 0.	0.	0.	3278960.	4197096.	83600.
SM 0.	0.	0.	628994368.	895958976.	10678228.
AV 0.	0.	0.	845423.	1204246.	41234.
YEARLY SUMMARY					
MN 0.	0.	0.	0.	0.	0.
MX 1174303.	2810543.	156800.	3309360.	4229744.	83600.
SM 882243328.	2366562560.	149500432.	3345067520.	4815804928.	172233824.
AV 100713.	270156.	17066.	381857.	549749.	19661.

# FT. MEADE, MARYLAND

Building: 4551

Square feet 13,614

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Concrete Block	1.72
Air Space	1.10
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Slate Shingles	0.05
Wood Deck	0.93
Air Space	1.10
Plaster	0.56
Inside Surface	0.61
Total R-Value	3.42
Total U-Value	0.29

Calculated Total Area	
No. of Floors	2
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	13614
Roof Area	5720
Estimated Infiltration (cfm)	5600
Gross Wall Area	8215
Door Area	130
Gross Window Area	825
Other	
Net Wall Area	7260

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

$$U_oA_o = (7260 \times 0.21) + (5720 \times 0.11) + (825 \times 0.6) + (130 \times 0.5) = 2713.8$$



# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 4551

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
<b>COOLING:</b>	<b>AHU-1</b>	<b>AHU-2</b>	<b>AHU-4</b>	<b>Boiler</b>	<b>AHU-3</b>	<b>Fan Coils</b>	<b>Chiller</b>	
Equipment Name								
Type of Cooling	3	3	3		1	3	3	
Air Side	2	2	2		1	1		
Location in Building	West 1st Flr	East 1st Flr	Center 2nd Flr		Conf Rm	Bsmt, 1st, 2nd		
Area Sq. Feet	1450	1450	2900		900	6300		
Supply CFM	2675	2170	2735		1200			
Supply Fan HP	1	1	3/4		3/4	3		
O.A. CFM or %	20%	20%	20%		20%	0%		
Return CFM								
Return Fan HP							50	
Chiller Tonnage								
Tower or Condenser Fan HP								
Condenser Pump HP								
Chilled Water Pump HP							2	
<b>HEATING:</b>								
Type of Heating								
Source				1				
MBTUH				1				
Hot Water Pump HP				1697/1356				
Condensate Pump HP				2				
<b>ADDITIONAL:</b>								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
<b>Type of Cooling</b>	<b>Type of Cooling</b>			<b>Type of Heating</b>				
(1) Air Cooled DX	(4) Water Cooled Chiller	(5) Central Plant Supplied	(6) Other	(1) Boiler Hot Water	(2) Boiler Steam	(3) Steam to Hot Water Converter	(4) Furnace	
(2) Water Cooled DX	<b>Air Side</b>			<b>Heating Source</b>				
(3) Air Cooled Chiller	(4) VAV w/ Reheat	(5) Constant Volume Reheat	(6) Heating and Ventilating	(1) Natural Gas	(2) Central Plant Steam	(3) Central Plant Hot Water	(4) Oil	
(1) Single Zone							(5) Electric	
(2) Multi-Zone								
(3) VAV								

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4551
Case: 1
Description: GARRISON HDQTRS
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Multi-zone AHU

```

=====
Description: AHU-1 WEST 1ST FLOOR MULTIZONE
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.4	0
Day/Night Setback	41.826	104	0.0	0
Vent/Recirculation	8.668	0	0.0	0
Hot/Cold Deck Reset	22.357	1,088	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	72.851	1,192	0.4	4
Heating Value /	1,031 Btu/cf			
Totals	70,660 cf /yr	1,192 kWh/yr	0.4 kW	4 mh/yr



## Annual Energy Savings Table for Multi-zone AHU

Description: AHU-2 EAST 1ST FLOOR MULTIZONE

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.1	0
Day/Night Setback	41.826	104	0.0	0
Vent/Recirculation	7.032	0	0.0	0
Hot/Cold Deck Reset	18.136	883	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	66.994	987	0.1	4
Heating Value /	1,031 Btu/cf			
Totals	64,979 cf /yr	987 kWh/yr	0.1 kW	4 mh/yr

## Annual Energy Savings Table for Multi-zone AHU

Description: AHU-4 2ND FLOOR CENTER MULTIZONE

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.1	0
Day/Night Setback	83.652	207	0.0	0
Vent/Recirculation	8.863	0	0.0	0
Hot/Cold Deck Reset	22.858	1,113	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	115.373	1,320	0.1	4
Heating Value /	1,031 Btu/cf			
Totals	111,904 cf /yr	1,320 kWh/yr	0.1 kW	4 mh/yr

## Annual Energy Savings Table for Single Zone DX-A/C

Description: AHU-3 Conference Room Heat Pump

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	0.1	0
Day/Night Setback	20.769	96	0.0	0
Vent/Recirculation	3.111	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	23.880	96	0.1	4
Heating Value /	1,031 Btu/cf			
Totals	23,162 cf /yr	96 kWh/yr	0.1 kW	4 mh/yr

## Annual Energy Savings Table for Two Pipe Fan Coil Unit

Description: FAN COIL UNITS

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Day/Night Setback	181.727	450	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	181.727	450	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	176,263 cf /yr	450 kWh/yr	0.0 kW	4 mh/yr

## Annual Energy Savings Table for Hot Water Boiler

Description: BOILER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Hot Water OA Reset	254.550	0	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Subtotals	254.550	0	0.0	4
Heating Value /	1,031 Btu/cf			
Totals	246,896	0	0.0	4
	cf /yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Air Cooled Chiller

Description: CHILLER				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Scheduled Start/Stop	0.000	392	0.0	0
Chiller Water Reset	0.000	2,088	0.0	0
Run Time Recording	0.000	0	0.0	2
Safety Alarm	0.000	0	0.0	2
Totals	0.000	2,480	0.0	4
	MBtu/yr	kWh/yr	kW	mh/yr

## Annual Energy Savings Table for Lighting Control

Description: Lighting				
Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	37,440	0.0	0
Totals	0.000	37,440	0.0	0
	MBtu/yr	kWh/yr	kW	mh/yr

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31 May 1996 15:34:12

EMCS Annual Energy Savings for Building 4551

Description	Value	Units
Natural gas (methane)	693,864	cf /yr
Electrical Energy	43,965	kWh/yr
Electrical Demand Reduction	0.8	kW
Labor Savings	28	mh/yr

# FT. MEADE, MARYLAND

Building: 4552

Square feet 67,824

Exterior Wall	
Components	R-Value
Outside Surface	0.17
Brick	0.44
Air Space	1.10
Concrete Block	1.72
Plaster	0.56
Inside Surface	0.68
Total R-Value	4.67
Total U-Value	0.21

Exterior Roof	
Components	R-Value
Outside Surface	0.17
Slate	0.33
Wood Deck	0.93
2" Insulation	12.00
Plaster Clg	0.56
Inside Surface	0.61
Total R-Value	14.60
Total U-Value	0.07

Calculated Total Area	
No. of Floors	4
Avg. Floor to Floor Height	12
No. of Basement Levels	1
Gross Floor Area	67824
Roof Area	13600
Estimated Infiltration (cfm)	8200
Gross Wall Area	29020
Door Area	100
Gross Window Area	900
Other	
Net Wall Area	28020

Window and Door	
	U-Value
Window Single Pane W/Storm	0.60
Window Single Pane Wo/Storm	
Window Double Pane	
Skylight	
Glass Block	
Other	
Door Type 1	0.50
Door Type 2	
Door Type 3	

# FT. MEADE, MARYLAND EQUIPMENT SCHEDULE

BUILDING NO. 4552

Page 1 of 1

EQUIPMENT	SYSTEM NUMBER							
	1	2	3	4	5	6	7	8
Equipment Name	AC-1	AC-2	AC-3	AC-4	AC-25	AC-26	AC-27	Boiler
COOLING:								
Type of Cooling	1	1	1	1	1	1	1	1
Air Side	1	2	2	2	1	1	2	2
Location in Building	1/2 BSMT	1st Flr	2nd Flr	3rd Flr	1/2 BSMT	1st Flr North	4th Flr	
Area Sq. Feet	4500	11500	13600	13600	9100	2100	10000	
Supply CFM	4520	13510	16615	18630	10000	2300	11000	
Supply Fan HP	2	10	15	15	10	1 1/2	10	
O.A. CFM or %	20%	20%	20%	20%	20%	20%	20%	
Return CFM								
Return Fan HP								
Chiller Tonnage	15	30	40	40	15		30	
Tower or Condenser Fan HP	2/3	3	5	5	2/3		3	
Condenser Pump HP								
Chilled Water Pump HP								
HEATING:								Two Total
Type of Heating								2
Source								1
MBTUH								2520/2052
Hot Water Pump HP								
Condensate Pump HP								1
ADDITIONAL:								
Aux. HP Cooling								
Aux. HP Heating								
Operating Schedule Hrs./Week								
Type of Cooling								Type of Heating
(1) Air Cooled DX								(1) Boiler Hot Water
(2) Water Cooled DX								(2) Boiler Steam
(3) Air Cooled Chiller								(3) Steam to Hot Water Converter
Air Side								Heating Source
(1) Single Zone								(1) Natural Gas
(2) Multi-Zone								(2) Central Plant Steam
(3) VAV								(3) Central Plant Hot Water
								(4) Furnace
								(5) Oil
								(5) Electric

## EMCS Annual Energy Savings Summary Report

```

=====
Base: FTMEADE
Building: 4552
Case: 1
Description: ADMIN
=====

```

```

=====
Fuel Type: Natural gas (methane)
Heating Value: 1,031 Btu/cf
=====

```

## Caution

```

=====
The ESA program makes no attempt to exclude incompatible strategies.
It is the user's responsibility to select all appropriate strategies.
=====

```

## Annual Energy Savings Table for Multi-zone DX-A/C

```

=====
Description: MULTI-ZONE UNITS (4)
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Demand Limiting	0.000	0	7.5	0
Hot/Cold Deck Reset	454.007	28,734	0.0	0
Subtotals	454.007	28,734	7.5	0
Heating Value /	1,031 Btu/cf			
Totals	440,356 cf /yr	28,734 kWh/yr	7.5 kW	0 mh/yr

## Annual Energy Savings Table for Lighting Control

```

=====
Description: LIGHTING
=====

```

Strategy	MBtu/yr	kWh/yr	kW	mh/yr
Lighting Control	0.000	112,320	0.0	0
Totals	0.000 MBtu/yr	112,320 kWh/yr	0.0 kW	0 mh/yr

## EMCS Annual Energy Savings for Building 4552

Description	Value	Units
Natural gas (methane)	440,356	cf /yr
Electrical Energy	141,054	kWh/yr
Electrical Demand Reduction	7.5	kW
Labor Savings	0	mh/yr



**UMCS FEASIBILITY STUDY  
FORT MEADE  
BUILDING 4552 - ADMINISTRATIVE  
DOE ENERGY SAVINGS SUMMARY**

	Space Heat		Space Cool Electricity mmBtu	HVAC Aux Electricity mmBtu	Lights Electricity mmBtu	Misc Equip Electricity mmBtu	TOTAL		TOTAL	
	Electricity mmBtu	Natural Gas mmBtu					Electricity mmBtu	Natural Gas mmBtu	Electricity Kwh	Natural Gas MCF
Existing	151.6	2,839.0	616.4	1,281.5	1,721.8	652.3	4,423.6	2,839.0	1,296,097	2,753.6
New w/Night Setback	85.3	1,927.1	573.9	597.4	1,721.8	652.3	3,630.7	1,927.1	1,063,786	1,869.2
Night Setback Savings							792.9	911.9	232,312	884.4
New w/Night Setback and Vent/Recirc	80.6	1,746.3	571.8	584.5	1,721.8	652.3	3,610.9	1,746.3	1,057,993	1,693.8
Vent/Recirc Savings							19.8	180.8	5,793	175.4
New w/Night Setback & Vent/Recirc & Economizer	73.1	1,501.6	520.8	583.6	1,721.8	652.3	3,551.6	1,501.6	1,040,607	1,456.4
Economizer Savings							59.3	244.7	17,386	237.4

ENTECH ENGINEERING READING, PA 19603 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 6/ 5/1996 EMCS STUDY		15:10:30 SDL RUN 1
PAGE 1- 1								
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (JAN)								
MN	-49297.	2.424	-129883.	0.000	149125.	-49297.	2.424	-129883.
MX	-16891.	2.424	-129883.	0.000	152850.	-16891.	2.424	-129883.
SM	-28554714.	1803.240	-96633176.	0.000	110958736.	-28554714.	1803.240	-96633176.
AV	-38380.	2.424	-129883.	0.000	149138.	-38380.	2.424	-129883.
MONTHLY SUMMARY (FEB)								
MN	-54017.	2.424	-129883.	0.000	149125.	-54017.	2.424	-129883.
MX	-20916.	2.424	-129883.	0.000	152493.	-20916.	2.424	-129883.
SM	-28747618.	1628.733	-87281576.	0.000	100237568.	-28747618.	1628.733	-87281576.
AV	-42779.	2.424	-129883.	0.000	149163.	-42779.	2.424	-129883.
MONTHLY SUMMARY (MAR)								
MN	-53693.	2.424	-129883.	0.000	145432.	-53693.	2.424	-129883.
MX	-19663.	2.424	-129883.	0.000	161719.	-19663.	2.424	-129883.
SM	-31042922.	1803.240	-96633176.	0.000	111048552.	-31042922.	1803.240	-96633176.
AV	-41724.	2.424	-129883.	0.000	149259.	-41724.	2.424	-129883.
MONTHLY SUMMARY (APR)								
MN	-51630.	2.424	-129883.	0.000	141285.	-51630.	2.424	-129883.
MX	-14505.	2.424	-129883.	0.000	163580.	-14505.	2.424	-129883.
SM	-28360426.	1745.071	-93515976.	0.000	107746936.	-28360426.	1745.071	-93515976.
AV	-39389.	2.424	-129883.	0.000	149649.	-39389.	2.424	-129883.
MONTHLY SUMMARY (MAY)								
MN	0.	2.424	0.	0.000	136874.	0.	2.424	0.
MX	0.	2.424	0.	0.000	166031.	0.	2.424	0.
SM	0.	1803.240	0.	0.000	111583248.	0.	1803.240	0.
AV	0.	2.424	0.	0.000	149977.	0.	2.424	0.
MONTHLY SUMMARY (JUN)								
MN	0.	2.424	0.	0.000	134840.	0.	2.424	0.
MX	0.	2.424	0.	4.136	181392.	0.	2.424	0.
SM	0.	1745.071	0.	131.521	111569680.	0.	1745.071	0.
AV	0.	2.424	0.	0.183	154958.	0.	2.424	0.
MONTHLY SUMMARY (JUL)								
MN	0.	2.424	0.	0.000	134542.	0.	2.424	0.
MX	0.	2.424	0.	5.260	184054.	0.	2.424	0.
SM	0.	1803.240	0.	738.248	117411136.	0.	1803.240	0.
AV	0.	2.424	0.	0.992	157811.	0.	2.424	0.

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	----( 5)	----(49)	----(78)	----(47)	----(70)	----( 5)	----(49)	----(78)
MONTHLY SUMMARY (AUG)								
MN	0.	2.424	0.	0.000	136060.	0.	2.424	0.
MX	0.	2.424	0.	6.204	179548.	0.	2.424	0.
SM	0.	1803.240	0.	1231.659	113796704.	0.	1803.240	0.
AV	0.	2.424	0.	1.655	152953.	0.	2.424	0.
MONTHLY SUMMARY (SEP)								
MN	0.	2.424	0.	0.000	136084.	0.	2.424	0.
MX	0.	2.424	0.	6.284	178913.	0.	2.424	0.
SM	0.	1745.071	0.	799.156	109352464.	0.	1745.071	0.
AV	0.	2.424	0.	1.110	151878.	0.	2.424	0.
MONTHLY SUMMARY (OCT)								
MN	-61481.	2.424	-129883.	0.000	141099.	-61481.	2.424	-129883.
MX	0.	2.424	0.	5.385	168743.	0.	2.424	0.
SM	-10422434.	1803.240	-49875180.	1184.772	111937384.	-10422434.	1803.240	-49875180.
AV	-14009.	2.424	-67037.	1.592	150453.	-14009.	2.424	-67037.
MONTHLY SUMMARY (NOV)								
MN	-32091.	2.424	-129883.	0.000	149125.	-32091.	2.424	-129883.
MX	-5.	2.424	-129883.	0.000	179606.	-5.	2.424	-129883.
SM	-14635556.	1745.071	-93515976.	0.000	108714776.	-14635556.	1745.071	-93515976.
AV	-20327.	2.424	-129883.	0.000	150993.	-20327.	2.424	-129883.
MONTHLY SUMMARY (DEC)								
MN	-40796.	2.424	-129883.	0.000	149125.	-40796.	2.424	-129883.
MX	-5946.	2.424	-129883.	0.000	158054.	-5946.	2.424	-129883.
SM	-22490088.	1803.240	-96633176.	0.000	111067584.	-22490088.	1803.240	-96633176.
AV	-30229.	2.424	-129883.	0.000	149284.	-30229.	2.424	-129883.
YEARLY SUMMARY								
MN	-61481.	2.424	-129883.	0.000	134542.	-61481.	2.424	-129883.
MX	0.	2.424	0.	6.284	184054.	0.	2.424	0.
SM	-164253760.	21231.699	-614088192.	4085.357	1325424640.	-164253760.	21231.699	-614088192.
AV	-18750.	2.424	-70101.	0.466	151304.	-18750.	2.424	-70101.

ENTECH ENGINEERING  
READING, PA 19603  
H-1 = HOURLY-REPORT

RZDOB - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

DOE-2.1D 6/ 5/1996 15:10:30 SDL RUN 1  
EMCS STUDY

PAGE 1- 2

MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
----	(47)	(70)	----	( 5)	----	(49)	----	(78)
MONTHLY SUMMARY (JAN)								
MN	0.000	149125.	-69297.	3.897	-208820.	0.000	257595.	-67378.
MX	0.000	152850.	-6.	3.897	-208820.	0.000	525633.	-6.
SM	0.000	110958736.	-25844828.	2899.156	-155361760.	0.000	195540880.	-24917418.
AV	0.000	149138.	-34738.	3.897	-208820.	0.000	262824.	-33491.
MONTHLY SUMMARY (FEB)								
MN	0.000	149125.	-74729.	3.897	-208820.	0.000	257595.	-71793.
MX	0.000	152493.	-3.	3.897	-208820.	0.000	358614.	-3.
SM	0.000	100237568.	-22257012.	2618.592	-140326768.	0.000	175870848.	-21468978.
AV	0.000	149163.	-33121.	3.897	-208820.	0.000	261713.	-31948.
MONTHLY SUMMARY (MAR)								
MN	0.000	145432.	-62854.	3.897	-208820.	0.000	257595.	-60786.
MX	0.000	161719.	0.	3.897	-208820.	0.000	415220.	0.
SM	0.000	111048552.	-15229221.	2899.156	-155361760.	0.000	196881424.	-14665497.
AV	0.000	149259.	-20469.	3.897	-208820.	0.000	264626.	-19712.
MONTHLY SUMMARY (APR)								
MN	0.000	141285.	-49875.	3.897	-208820.	0.000	256309.	-48438.
MX	0.000	163580.	0.	3.897	-208820.	0.000	408591.	0.
SM	0.000	107746936.	-7219938.	2805.635	-150350096.	0.000	194638896.	-7014918.
AV	0.000	149649.	-10028.	3.897	-208820.	0.000	270332.	-9743.
MONTHLY SUMMARY (MAY)								
MN	0.000	136874.	0.	3.897	0.	0.000	236434.	0.
MX	0.000	166031.	0.	3.897	0.	12.231	390841.	0.
SM	0.000	111583248.	0.	2899.156	0.	1534.989	197299200.	0.
AV	0.000	149977.	0.	3.897	0.	2.063	265187.	0.
MONTHLY SUMMARY (JUN)								
MN	0.000	134840.	0.	3.897	0.	0.000	234673.	0.
MX	4.136	181392.	0.	3.897	0.	18.597	348417.	0.
SM	111.521	111569680.	0.	2805.635	0.	3766.110	189826640.	0.
AV	0.183	154958.	0.	3.897	0.	5.231	263648.	0.
MONTHLY SUMMARY (JUL)								
MN	0.000	134542.	0.	3.897	0.	0.000	240124.	0.
MX	5.260	184054.	0.	3.897	0.	18.404	360578.	0.
SM	738.248	117411136.	0.	2899.156	0.	4829.380	194427312.	0.
AV	0.992	157811.	0.	3.897	0.	6.491	261327.	0.

	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	----(47)	----(70)	----( 5)	----(49)	----(78)	----(47)	----(70)	----( 5)
MONTHLY SUMMARY (AUG)								
MN	0.000	136060.	0.	3.897	0.	0.000	239430.	0.
MX	6.204	179548.	0.	3.897	0.	18.168	347675.	0.
SM	1231.659	113796704.	0.	2899.156	0.	4621.409	195838480.	0.
AV	1.655	152953.	0.	3.897	0.	6.212	263224.	0.
MONTHLY SUMMARY (SEP)								
MN	0.000	136084.	0.	3.897	0.	0.000	236464.	0.
MX	6.284	178913.	0.	3.897	0.	16.238	382190.	0.
SM	799.156	109352464.	0.	2805.635	0.	2744.827	190537984.	0.
AV	1.110	151878.	0.	3.897	0.	3.812	264636.	0.
MONTHLY SUMMARY (OCT)								
MN	0.000	141099.	-105263.	3.897	-208820.	0.000	243732.	-100650.
MX	5.385	168743.	0.	3.897	0.	11.717	354699.	0.
SM	1184.772	111937384.	-14865281.	2899.156	-80186712.	2567.402	196477600.	-14189490.
AV	1.592	150453.	-19980.	3.897	-107778.	3.451	264083.	-19072.
MONTHLY SUMMARY (NOV)								
MN	0.000	149125.	-56509.	3.897	-208820.	0.000	257595.	-54846.
MX	0.000	179606.	0.	3.897	-208820.	0.000	369621.	0.
SM	0.000	108714776.	-13632274.	2805.635	-150350096.	0.000	193682288.	-13024957.
AV	0.000	150993.	-18934.	3.897	-208820.	0.000	269003.	-18090.
MONTHLY SUMMARY (DEC)								
MN	0.000	149125.	-59463.	3.897	-208820.	0.000	257595.	-57282.
MX	0.000	158054.	-4.	3.897	-208820.	0.000	361918.	-4.
SM	0.000	111067584.	-23342012.	2899.156	-155361760.	0.000	195442736.	-22514840.
AV	0.000	149284.	-31374.	3.897	-208820.	0.000	262692.	-30262.
YEARLY SUMMARY								
MN	0.000	134542.	-105263.	3.897	-208820.	0.000	234673.	-100650.
MX	6.284	184054.	0.	3.897	0.	18.597	525633.	0.
SM	4085.357	1325424640.	-122390560.	34135.223	-987298944.	20064.119	2316464128.	-117796096.
AV	0.466	151304.	-13972.	3.897	-112705.	2.290	264437.	-13447.

MMDDHH	AHU-4	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-5
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW
	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)
MONTHLY SUMMARY (JAN)								
MN	3.744	-200643.	0.000	247750.	-128699.	7.435	-398455.	0.000
MX	3.744	-200643.	0.000	504335.	-5.	7.435	-398455.	0.000
SM	2785.634	-149278352.	0.000	188034464.	-45404916.	5531.971	-296450816.	0.000
AV	3.744	-200643.	0.000	252735.	-61028.	7.435	-398455.	0.000
MONTHLY SUMMARY (FEB)								
MN	3.744	-200643.	0.000	247750.	-139365.	7.435	-398455.	0.000
MX	3.744	-200643.	0.000	344337.	-2.	7.435	-398455.	0.000
SM	2516.056	-134832080.	0.000	169124048.	-39164556.	4996.619	-267762000.	0.000
AV	3.744	-200643.	0.000	251673.	-58281.	7.435	-398455.	0.000
MONTHLY SUMMARY (MAR)								
MN	3.744	-200643.	0.000	247750.	-116253.	7.435	-398455.	0.000
MX	3.744	-200643.	0.000	398546.	0.	7.435	-398455.	0.000
SM	2785.634	-149278352.	0.000	189326160.	-26004134.	5531.971	-296450816.	0.000
AV	3.744	-200643.	0.000	254471.	-34952.	7.435	-398455.	0.000
MONTHLY SUMMARY (APR)								
MN	3.744	-200643.	0.000	246513.	-91589.	7.435	-398455.	0.000
MX	3.744	-200643.	0.000	392202.	0.	7.435	-398455.	0.000
SM	2695.775	-144462928.	0.000	187155520.	-11894196.	5353.521	-286887872.	0.000
AV	3.744	-200643.	0.000	259938.	-16520.	7.435	-398455.	0.000
MONTHLY SUMMARY (MAY)								
MN	3.744	0.	0.000	227398.	0.	7.435	0.	0.000
MX	3.744	0.	11.772	375376.	0.	7.435	0.	28.702
SM	2785.634	0.	1473.378	189742960.	0.	5531.971	0.	3119.360
AV	3.744	0.	1.980	255031.	0.	7.435	0.	4.193
MONTHLY SUMMARY (JUN)								
MN	3.744	0.	0.000	225729.	0.	7.435	0.	0.000
MX	3.744	0.	17.935	334769.	0.	7.435	0.	36.651
SM	2695.775	0.	3630.229	182575488.	0.	5353.521	0.	7407.872
AV	3.744	0.	5.042	253577.	0.	7.435	0.	10.289
MONTHLY SUMMARY (JUL)								
MN	3.744	0.	0.000	230960.	0.	7.435	0.	0.000
MX	3.744	0.	17.787	346390.	0.	7.435	0.	36.252
SM	2785.634	0.	4669.642	187002080.	0.	5531.971	0.	9439.436
AV	3.744	0.	6.276	251347.	0.	7.435	0.	12.687

	AHU-4	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-5
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW
	----(49)	----(78)	----(47)	----(70)	----( 5)	----(49)	----(78)	----(47)
MONTHLY SUMMARY (AUG)								
MN	3.744	0.	0.000	230267.	0.	7.435	0.	0.000
MX	3.744	0.	17.608	334015.	0.	7.435	0.	35.876
SM	2785.634	0.	4487.641	188350336.	0.	5531.971	0.	9112.055
AV	3.744	0.	6.032	253159.	0.	7.435	0.	12.247
MONTHLY SUMMARY (SEP)								
MN	3.744	0.	0.000	227412.	0.	7.435	0.	0.000
MX	3.744	0.	15.786	367074.	0.	7.435	0.	32.153
SM	2695.775	0.	2685.555	183264848.	0.	5353.521	0.	5493.534
AV	3.744	0.	3.730	254535.	0.	7.435	0.	7.630
MONTHLY SUMMARY (OCT)								
MN	3.744	-200643.	0.000	234417.	-194851.	7.435	-398455.	0.000
MX	3.744	0.	11.458	340748.	0.	7.435	0.	23.802
SM	2785.634	-77046904.	2497.934	188977360.	-27386808.	5531.971	-153006864.	5171.024
AV	3.744	-103558.	3.357	254002.	-36810.	7.435	-205654.	6.950
MONTHLY SUMMARY (NOV)								
MN	3.744	-200643.	0.000	247750.	-104603.	7.435	-398455.	0.000
MX	3.744	-200643.	0.000	355036.	0.	7.435	-398455.	0.000
SM	2695.775	-144462928.	0.000	186265520.	-22957328.	5353.521	-286887872.	0.000
AV	3.744	-200643.	0.000	258702.	-31885.	7.435	-398455.	0.000
MONTHLY SUMMARY (DEC)								
MN	3.744	-200643.	0.000	247750.	-108963.	7.435	-398455.	0.000
MX	3.744	-200643.	0.000	347541.	-3.	7.435	-398455.	0.000
SM	2785.634	-149278352.	0.000	187942144.	-40597228.	5531.971	-296450816.	0.000
AV	3.744	-200643.	0.000	252610.	-54566.	7.435	-398455.	0.000
YEARLY SUMMARY								
MN	3.744	-200643.	0.000	225729.	-194851.	7.435	-398455.	0.000
MX	3.744	0.	17.935	504335.	0.	7.435	0.	36.651
SM	32798.594	-948639872.	19444.377	2227761152.	-213409184.	65134.504	-1883897088.	39743.281
AV	3.744	-108292.	2.220	254311.	-24362.	7.435	-215057.	4.537

MMDDHH	AHU-5	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-7	AHU-7
	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	492026.	-145873.	8.286	-444056.	0.000	544445.	-244791.	11.948
MX	1001767.	-5.	8.286	-444056.	0.000	1108185.	-22872.	11.948
SM	373537376.	-53775696.	6165.075	-330377696.	0.000	413257152.	-111348536.	8889.582
AV	502066.	-72279.	8.286	-444056.	0.000	555453.	-149662.	11.948
MONTHLY SUMMARY (FEB)								
MN	492026.	-152659.	8.286	-444056.	0.000	544445.	-251121.	11.948
MX	684058.	-2.	8.286	-444056.	0.000	756698.	-6.	11.948
SM	336022336.	-45229616.	5568.454	-298405664.	0.000	371764768.	-94134304.	8029.300
AV	500033.	-67306.	8.286	-444056.	0.000	553221.	-140081.	11.948
MONTHLY SUMMARY (MAR)								
MN	492026.	-129612.	8.286	-444056.	0.000	544445.	-210949.	11.948
MX	791780.	0.	8.286	-444056.	0.000	875886.	-1.	11.948
SM	376314368.	-29845776.	6165.075	-330377696.	0.000	416361632.	-74290696.	8889.582
AV	505799.	-40115.	8.286	-444056.	0.000	559626.	-99853.	11.948
MONTHLY SUMMARY (APR)								
MN	489569.	-104389.	8.286	-444056.	0.000	541726.	-184174.	11.948
MX	779743.	0.	8.286	-444056.	0.000	862135.	0.	11.948
SM	372497408.	-13368590.	5966.201	-319720352.	0.000	412201376.	-43852960.	8602.821
AV	517358.	-18567.	8.286	-444056.	0.000	572502.	-60907.	11.948
MONTHLY SUMMARY (MAY)								
MN	451607.	0.	8.286	0.	0.000	499719.	0.	11.948
MX	745542.	0.	8.286	0.	32.164	824856.	0.	11.948
SM	376460160.	0.	6165.075	0.	3630.430	416400224.	0.	8889.582
AV	505995.	0.	8.286	0.	4.880	559678.	0.	11.948
MONTHLY SUMMARY (JUN)								
MN	448351.	0.	8.286	0.	0.000	495446.	0.	11.948
MX	658452.	0.	8.286	0.	40.737	775590.	0.	11.948
SM	362235456.	0.	5966.201	0.	8536.124	400706432.	0.	8602.821
AV	503105.	0.	8.286	0.	11.856	556537.	0.	11.948
MONTHLY SUMMARY (JUL)								
MN	458369.	0.	8.286	0.	0.000	505346.	0.	11.948
MX	687963.	0.	8.286	0.	40.427	761152.	0.	11.948
SM	371284864.	0.	6165.075	0.	10767.900	409904544.	0.	8889.582
AV	499039.	0.	8.286	0.	14.473	550947.	0.	11.948



	AHU-5	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-7	AHU-7
	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	457050.	0.	8.286	0.	0.000	504320.	0.	11.948
MX	663421.	0.	8.286	0.	40.056	733648.	0.	11.948
SM	373994432.	0.	6165.075	0.	10258.932	413032960.	0.	8889.582
AV	502681.	0.	8.286	0.	13.789	555152.	0.	11.948
MONTHLY SUMMARY (SEP)								
MN	451506.	0.	8.286	0.	0.000	498903.	0.	11.948
MX	729023.	0.	8.286	0.	36.058	806504.	0.	11.948
SM	363840448.	0.	5966.201	0.	6160.016	402057152.	0.	8602.821
AV	505334.	0.	8.286	0.	8.556	558413.	0.	11.948
MONTHLY SUMMARY (OCT)								
MN	465547.	-220714.	8.286	-444056.	0.000	515145.	-374132.	11.948
MX	676902.	0.	8.286	0.	26.186	748676.	0.	11.948
SM	375190784.	-30827436.	6165.075	-170517520.	5722.403	415046400.	-52938428.	8889.582
AV	504289.	-41435.	8.286	-229190.	7.691	557858.	-71154.	11.948
MONTHLY SUMMARY (NOV)								
MN	492026.	-117833.	8.286	-444056.	0.000	544445.	-181343.	11.948
MX	706729.	0.	8.286	-444056.	0.000	780944.	0.	11.948
SM	370356832.	-27846774.	5966.201	-319720352.	0.000	409590496.	-67637808.	8602.821
AV	514385.	-38676.	8.286	-444056.	0.000	568876.	-93941.	11.948
MONTHLY SUMMARY (DEC)								
MN	492026.	-125700.	8.286	-444056.	0.000	544445.	-210216.	11.948
MX	691068.	-3.	8.286	-444056.	0.000	763992.	-4154.	11.948
SM	373422432.	-48595160.	6165.075	-330377696.	0.000	413088000.	-102711912.	8889.582
AV	501912.	-65316.	8.286	-444056.	0.000	555226.	-138054.	11.948
YEARLY SUMMARY								
MN	448351.	-220714.	8.286	-444056.	0.000	495446.	-374132.	11.948
MX	1001767.	0.	8.286	0.	40.737	1108185.	0.	11.948
SM	4425156608.	-249489056.	72588.781	-2099496960.	45075.801	4893411328.	-546914688.	104667.656
AV	505155.	-28480.	8.286	-239669.	5.146	558609.	-62433.	11.948

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MMDDHH	AHU-7 HEATING CAPACITY BTU/HR ---- (78)	AHU-7 COOLING ELECTRIC KW ---- (47)	AHU-7 COOLING CAPACITY BTU/HR ---- (70)
MONTHLY SUMMARY (JAN)			
MN	-640296.	0.000	757338.
MX	-640296.	0.000	1620807.
SM	-476380256.	0.000	576819968.
AV	-640296.	0.000	775296.
MONTHLY SUMMARY (FEB)			
MN	-640296.	0.000	757338.
MX	-640296.	0.000	1089389.
SM	-430278944.	0.000	518337184.
AV	-640296.	0.000	771335.
MONTHLY SUMMARY (MAR)			
MN	-640296.	0.000	757338.
MX	-640296.	0.000	1269877.
SM	-476380256.	0.000	580076736.
AV	-640296.	0.000	779673.
MONTHLY SUMMARY (APR)			
MN	-640296.	0.000	753557.
MX	-640296.	0.000	1248999.
SM	-461013152.	0.000	572119808.
AV	-640296.	0.000	794611.
MONTHLY SUMMARY (MAY)			
MN	0.	0.000	695124.
MX	0.	29.551	1196021.
SM	0.	3071.270	580649088.
AV	0.	4.128	780442.
MONTHLY SUMMARY (JUN)			
MN	0.	0.000	687971.
MX	0.	46.070	1044855.
SM	0.	9231.158	557053824.
AV	0.	12.821	773686.
MONTHLY SUMMARY (JUL)			
MN	0.	0.000	698384.
MX	0.	46.674	1086057.
SM	0.	12174.275	568534784.
AV	0.	16.363	764160.

	AHU-7	AHU-7	AHU-7
	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR
	---- (78)	---- (47)	---- (70)
MONTHLY SUMMARY (AUG)			
MN	0.	0.000	699105.
MX	0.	45.459	1045534.
SM	0.	11279.715	573426048.
AV	0.	15.161	770734.
MONTHLY SUMMARY (SEP)			
MN	0.	0.000	693453.
MX	0.	42.270	1157466.
SM	0.	6325.678	560212736.
AV	0.	8.786	778073.
MONTHLY SUMMARY (OCT)			
MN	-640296.	0.000	716581.
MX	0.	28.883	1068438.
SM	-245873680.	5954.146	578085056.
AV	-330475.	8.003	776996.
MONTHLY SUMMARY (NOV)			
MN	-640296.	0.000	757338.
MX	-640296.	0.000	1116284.
SM	-461013152.	0.000	569672704.
AV	-640296.	0.000	791212.
MONTHLY SUMMARY (DEC)			
MN	-640296.	0.000	757338.
MX	-640296.	0.000	1097552.
SM	-476380256.	0.000	576262016.
AV	-640296.	0.000	774546.
YEARLY SUMMARY			
MN	-640296.	0.000	687971.
MX	0.	46.674	1620807.
SM	-3027319552.	48036.238	6811249664.
AV	-345584.	5.484	777540.

WEATHER FILE- BALTIMORE, MD

[illegible]

MONTH	S I T E   E N E R G Y												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRED ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	344.2	0.0	342.8 100.4E	0.0	0.0	0.0	0.0 0.0E	559.1	42.3 12.4E	0.0	559.1	901.9	1588.6
FEB	303.1	0.0	309.0 90.5E	0.0	0.0	0.0	0.0 0.0E	491.3	37.3 10.9E	0.0	491.3	800.3	1419.3
MAR	247.9	0.0	350.3 102.6E	0.0	0.0	0.0	0.0 0.0E	405.0	34.4 10.1E	0.0	405.0	755.2	1456.9
APR	165.1	0.0	322.8 94.5E	0.0	0.0	0.0	0.0 0.0E	269.7	26.8 7.8E	0.0	269.7	592.5	1239.2
MAY	0.0	0.0	344.4 100.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	344.4	1034.2
JUN	0.0	0.0	415.8 121.8E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	415.8	1248.7
JUL	0.0	0.0	441.0 129.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	441.0	1324.2
AUG	0.0	0.0	460.0 134.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	460.0	1381.5
SEP	0.0	0.0	381.4 111.7E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	381.4	1145.5
OCT	174.4	0.0	397.5 116.4E	0.0	0.0	0.0	0.0 0.0E	284.0	21.7 6.4E	0.0	284.0	681.5	1477.8
NOV	199.4	0.0	318.2 93.2E	0.0	0.0	0.0	0.0 0.0E	325.8	29.8 8.7E	0.0	325.8	644.0	1281.3
DEC	308.6	0.0	340.3 99.7E	0.0	0.0	0.0	0.0 0.0E	504.1	39.8 11.6E	0.0	504.1	844.4	1526.1
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	1742.6	0.0	4423.7 1295.6E	0.0	0.0	0.0	0.0 0.0E	2839.0	232.0 67.9E	0.0	2839.0	7262.6	16123.2

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	342.829	559.092
JAN	PEAK (KBTU)	1022.384	1208.539
	DY/HR	17/ 8	16/21
	TOTAL (MBTU)	309.037	491.302
FEB	PEAK (KBTU)	1019.808	1250.912
	DY/HR	4/ 8	12/13
	TOTAL (MBTU)	350.291	404.957
MAR	PEAK (KBTU)	1008.026	1121.972
	DY/HR	4/ 8	5/ 8
	TOTAL (MBTU)	322.820	269.727
APR	PEAK (KBTU)	1000.491	986.455
	DY/HR	8/ 8	9/ 8
	TOTAL (MBTU)	344.377	0.000
MAY	PEAK (KBTU)	1315.245	0.000
	DY/HR	6/16	31/ 1
	TOTAL (MBTU)	415.817	0.000
JUN	PEAK (KBTU)	1526.181	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	440.963	0.000
JUL	PEAK (KBTU)	1532.838	0.000
	DY/HR	25/16	31/ 1
	TOTAL (MBTU)	460.036	0.000
AUG	PEAK (KBTU)	1531.967	0.000
	DY/HR	18/16	31/ 1
	TOTAL (MBTU)	381.444	0.000
SEP	PEAK (KBTU)	1482.447	0.000
	DY/HR	1/16	30/ 1
	TOTAL (MBTU)	397.521	284.015
OCT	PEAK (KBTU)	1370.197	1642.267
	DY/HR	18/16	16/ 2
	TOTAL (MBTU)	318.190	325.776
NOV	PEAK (KBTU)	1001.558	1001.703
	DY/HR	25/ 8	25/ 7
	TOTAL (MBTU)	340.343	504.092
DEC	PEAK (KBTU)	1009.748	1072.836
	DY/HR	6/ 8	22/ 3
	ONE YEAR	4423.668	2838.961
	USE/PEAK	1532.838	1642.267

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/ 5/1996 15:10:30 PDL RUN 1  
EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	1742.6	100.0
	-----	-----
LOAD SATISFIED	1742.6	100.0
TOTAL LOAD ON PLANT	1742.6	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	4423.7	100.0
	-----	-----
LOAD SATISFIED	4423.7	100.0
TOTAL LOAD ON PLANT	4423.7	

ENTTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 FT. GEORGE G. MEADE  
 EMCS STUDY

DOE-2.1D 6/ 5/1996 15:10:30 PDL RUN 1  
 WEATHER FILE- BALTIMORE, MD  
 -----(CONTINUED)-----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	1742.6	1742.6	0.000	0.000	0
ELECTRICAL LOADS	4423.7	4423.7	0.000	0.000	0



ENTTECH ENGINEERING      E2DOE - ELITE SOFTWARE DEVELOPMENT INC      DOB-2.1D    6/ 5/1996    15:10:30    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    EMCS STUDY  
 REPORT- PS-H EQUIPMENT USE STATISTICS      WEATHER FILE- BALTIMORE, MD

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EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	----- MON DAY HR		----- SIZE OPER (MBTU) HRS		----- SIZE OPER (MBTU) HRS		----- SIZE OPER (MBTU) HRS		----- SIZE OPER (MBTU) HRS	
HW-BOILER	0.147	1.153	10	16	2	2.500	4728	2.500		0		

ENTECH ENGINEERING      ESDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/ 5/1996    15:10:30    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    EMCS STUDY  
 REPORT- PS-I    EQUIPMENT LIFE CYCLE COSTS    WEATHER FILE- BALTIMORE, MD

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EQUIPMENT TOTALS

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HW-BOILER	139.9		
NOMINAL SIZE (MBTU)		2.500	2.500
NUMBER INSTALLED		1	1
FIRST COST (K\$)	131.1	65.5	65.5
ANNUAL COST (K\$)	2.1	1.0	1.0
CYCLICAL COST (K\$)	6.8	6.8	0.0
-----TOTAL----(K\$)		73.4	66.6
EQUIPMENT TOTAL	139.9		

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	151.62	2838.96
SPACE COOL	616.41	0.00
HVAC AUX	1281.45	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	1721.76	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	652.34	0.00
	-----	-----
TOTAL	4423.59	2838.96

TOTAL SITE ENERGY    7262.63 MBTU    83.9 KBTU/SQFT-YR GROSS-AREA    83.9 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY    16123.25 MBTU    186.2 KBTU/SQFT-YR GROSS-AREA    186.2 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 34.5  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED    = 0.0

NOTE    ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND.    ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HW-BOILE R LOAD BTU/HR ---- ( 1 )	HW-BOILE R ELECTRIC USE BTU/HR ---- ( 3 )	HW-BOILE R FUEL USE BTU/HR ---- ( 4 )
MONTHLY SUMMARY (JAN)			
MN	91378.	8041.	149325.
MX	782297.	55000.	1208539.
SM	344219648.	29611900.	559092032.
AV	462661.	39801.	751468.
MONTHLY SUMMARY (FEB)			
MN	80235.	7061.	131116.
MX	818132.	55000.	1250912.
SM	303069920.	25883958.	491302368.
AV	450997.	38518.	731105.
MONTHLY SUMMARY (MAR)			
MN	74031.	6515.	120977.
MX	709354.	55000.	1121972.
SM	247940000.	21776368.	404957152.
AV	333253.	29269.	544297.
MONTHLY SUMMARY (APR)			
MN	63713.	5607.	104117.
MX	603654.	53122.	986455.
SM	165057376.	14525047.	269726752.
AV	229246.	20174.	374621.
MONTHLY SUMMARY (MAY)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (JUN)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (JUL)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.

	HW-BOILE R LOAD BTU/HR ----( 1)	HW-BOILE R ELECTRIC USE BTU/HR ----( 3)	HW-BOILE R FUEL USE BTU/HR ----( 4)
MONTHLY SUMMARY (AUG)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (SEP)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (OCT)			
MN	0.	0.	0.
MX	1153275.	55000.	1642267.
SM	174378144.	15160102.	284014848.
AV	234379.	20376.	381740.
MONTHLY SUMMARY (NOV)			
MN	34714.	3055.	56727.
MX	612985.	53943.	1001703.
SM	199356192.	17543346.	325775936.
AV	276884.	24366.	452467.
MONTHLY SUMMARY (DEC)			
MN	50764.	4467.	82955.
MX	668108.	55000.	1072836.
SM	308560160.	27125518.	504091968.
AV	414731.	36459.	677543.
YEARLY SUMMARY			
MN	0.	0.	0.
MX	1153275.	55000.	1642267.
SM	1742581376.	151626240.	2838960896.
AV	198925.	17309.	324082.

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ENTECH ENGINEERING READING, PA 19603 H-1			BZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 6/ 7/1996 EMCS STUDY		8:49:38 SDL RUN 1
HOURLY-REPORT								
PAGE 1- 1								
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5 )	----(49)	----(78)	----(47)	----(70)	----( 5 )	----(49)	----(78)
MONTHLY SUMMARY (JAN)								
MN	-98794.	1.819	-100150.	0.000	112264.	-98794.	1.819	-100150.
MX	-26856.	1.819	-100150.	0.000	112264.	-26856.	1.819	-100150.
SM	-15659449.	458.451	-25237706.	0.000	28290524.	-15659449.	458.451	-25237706.
AV	-62141.	1.819	-100150.	0.000	112264.	-62141.	1.819	-100150.
MONTHLY SUMMARY (FEB)								
MN	-98367.	1.819	-100150.	0.000	112264.	-98367.	1.819	-100150.
MX	-31720.	1.819	-100150.	0.000	112264.	-31720.	1.819	-100150.
SM	-16063894.	414.789	-22834114.	0.000	25596188.	-16063894.	414.789	-22834114.
AV	-70456.	1.819	-100150.	0.000	112264.	-70456.	1.819	-100150.
MONTHLY SUMMARY (MAR)								
MN	-96410.	1.819	-100150.	0.000	109484.	-96410.	1.819	-100150.
MX	-28210.	1.819	-100150.	0.000	115554.	-28210.	1.819	-100150.
SM	-18141912.	502.113	-27641298.	0.000	30978028.	-18141912.	502.113	-27641298.
AV	-65732.	1.819	-100150.	0.000	112239.	-65732.	1.819	-100150.
MONTHLY SUMMARY (APR)								
MN	-95716.	1.819	-100150.	0.000	105515.	-95716.	1.819	-100150.
MX	-16304.	1.819	-100150.	0.000	118746.	-16304.	1.819	-100150.
SM	-13704012.	458.451	-25237706.	0.000	28321958.	-13704012.	458.451	-25237706.
AV	-54381.	1.819	-100150.	0.000	112389.	-54381.	1.819	-100150.
MONTHLY SUMMARY (MAY)								
MN	0.	1.819	0.	0.000	103042.	0.	1.819	0.
MX	0.	1.819	0.	0.000	126508.	0.	1.819	0.
SM	0.	458.451	0.	0.000	28568184.	0.	458.451	0.
AV	0.	1.819	0.	0.000	113366.	0.	1.819	0.
MONTHLY SUMMARY (JUN)								
MN	0.	1.819	0.	0.000	102519.	0.	1.819	0.
MX	0.	1.819	0.	4.270	134095.	0.	1.819	0.
SM	0.	480.282	0.	99.363	31035230.	0.	480.282	0.
AV	0.	1.819	0.	0.376	117558.	0.	1.819	0.
MONTHLY SUMMARY (JUL)								
MN	0.	1.819	0.	0.000	104622.	0.	1.819	0.
MX	0.	1.819	0.	6.738	139979.	0.	1.819	0.
SM	0.	436.620	0.	720.549	28368608.	0.	436.620	0.
AV	0.	1.819	0.	3.002	118203.	0.	1.819	0.

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	----(49)	----(78)	----(47)	----(70)	---- ( 5)	----(49)	----(78)
MONTHLY SUMMARY (AUG)								
MN	0.	1.819	0.	0.000	106643.	0.	1.819	0.
MX	0.	1.819	0.	8.360	129796.	0.	1.819	0.
SM	0.	502.113	0.	1170.358	31891918.	0.	502.113	0.
AV	0.	1.819	0.	4.240	115550.	0.	1.819	0.
MONTHLY SUMMARY (SEP)								
MN	0.	1.819	0.	0.000	106563.	0.	1.819	0.
MX	0.	1.819	0.	7.797	129226.	0.	1.819	0.
SM	0.	458.451	0.	742.718	28648078.	0.	458.451	0.
AV	0.	1.819	0.	2.947	113683.	0.	1.819	0.
MONTHLY SUMMARY (OCT)								
MN	-58843.	1.819	-100150.	0.000	107843.	-58843.	1.819	-100150.
MX	0.	1.819	0.	5.304	119915.	0.	1.819	0.
SM	-1973158.	436.620	-13219748.	501.268	27068346.	-1973158.	436.620	-13219748.
AV	-8221.	1.819	-55082.	2.089	112785.	-8221.	1.819	-55082.
MONTHLY SUMMARY (NOV)								
MN	-83127.	1.819	-100150.	0.000	112264.	-83127.	1.819	-100150.
MX	-13.	1.819	-100150.	0.000	134181.	-13.	1.819	-100150.
SM	-2718370.	436.620	-24035910.	0.000	27397674.	-2718370.	436.620	-24035910.
AV	-11327.	1.819	-100150.	0.000	114157.	-11327.	1.819	-100150.
MONTHLY SUMMARY (DEC)								
MN	-95797.	1.819	-100150.	0.000	112264.	-95797.	1.819	-100150.
MX	-5380.	1.819	-100150.	0.000	113907.	-5380.	1.819	-100150.
SM	-9478138.	458.451	-25237706.	0.000	28295804.	-9478138.	458.451	-25237706.
AV	-37612.	1.819	-100150.	0.000	112285.	-37612.	1.819	-100150.
YEARLY SUMMARY								
MN	-98794.	1.819	-100150.	0.000	102519.	-98794.	1.819	-100150.
MX	0.	1.819	0.	8.360	139979.	0.	1.819	0.
SM	-77738928.	5501.409	-163444192.	3234.256	344460544.	-77738928.	5501.409	-163444192.
AV	-25707.	1.819	-54049.	1.070	113909.	-25707.	1.819	-54049.

ENTTECH ENGINEERING READING, PA 19603 H-1 = HOURLY-REPORT			EZDOR - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 6/ 7/1996 EMCS STUDY		8:49:38 SDL RUN 1
PAGE 1- 2								
MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (47)	---- (70)	--- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)
MONTHLY SUMMARY (JAN)								
MN	0.000	112264.	-182275.	3.527	-194161.	0.000	234782.	-177133.
MX	0.000	112264.	-20.	3.527	-194161.	0.000	234782.	-20.
SM	0.000	28290524.	-12676588.	888.803	-48928576.	0.000	59164984.	-12248495.
AV	0.000	112264.	-50304.	3.527	-194161.	0.000	234782.	-48605.
MONTHLY SUMMARY (FEB)								
MN	0.000	112264.	-180963.	3.527	-194161.	0.000	234782.	-175858.
MX	0.000	112264.	-17.	3.527	-194161.	0.000	242958.	-17.
SM	0.000	25596188.	-9348848.	804.155	-44268712.	0.000	53568996.	-9060608.
AV	0.000	112264.	-41004.	3.527	-194161.	0.000	234952.	-39740.
MONTHLY SUMMARY (MAR)								
MN	0.000	109484.	-172381.	3.527	-194161.	0.000	230121.	-166317.
MX	0.000	115554.	-9.	3.527	-194161.	0.000	248268.	-9.
SM	0.000	30978028.	-3975211.	973.451	-53588440.	0.000	64878796.	-3852491.
AV	0.000	112239.	-14403.	3.527	-194161.	0.000	235068.	-13958.
MONTHLY SUMMARY (APR)								
MN	0.000	105515.	-85957.	3.527	-194161.	0.000	232442.	-84017.
MX	0.000	118746.	0.	3.527	-194161.	0.000	272631.	0.
SM	0.000	28321958.	-555214.	888.803	-48928576.	0.000	60097276.	-556248.
AV	0.000	112389.	-2203.	3.527	-194161.	0.000	238481.	-2207.
MONTHLY SUMMARY (MAY)								
MN	0.000	103042.	0.	3.527	0.	0.000	215495.	0.
MX	0.000	126508.	0.	3.527	0.	14.469	268083.	0.
SM	0.000	28568184.	0.	888.803	0.	1198.524	60012612.	0.
AV	0.000	113366.	0.	3.527	0.	4.756	238145.	0.
MONTHLY SUMMARY (JUN)								
MN	0.000	102519.	0.	3.527	0.	0.000	217520.	0.
MX	4.270	134095.	0.	3.527	0.	23.698	268563.	0.
SM	99.363	31035230.	0.	931.127	0.	3095.934	63428512.	0.
AV	0.376	117558.	0.	3.527	0.	11.727	240260.	0.
MONTHLY SUMMARY (JUL)								
MN	0.000	104622.	0.	3.527	0.	0.000	218800.	0.
MX	6.738	139979.	0.	3.527	0.	24.524	261279.	0.
SM	720.549	28368608.	0.	846.479	0.	3786.179	57816400.	0.
AV	3.002	118203.	0.	3.527	0.	15.776	240902.	0.



ENTECH ENGINEERING  
READING, PA 19603  
H-1 = HOURLY-REPORT

BZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 6/ 7/1996  
EMCS STUDY

8:49:38 SDL RUN 1

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	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	----(47)	----(70)	----( 5)	----(49)	----(78)	----(47)	----(70)	----( 5)
MONTHLY SUMMARY (AUG)								
MN	0.000	106643.	0.	3.527	0.	0.000	223276.	0.
MX	8.360	129796.	0.	3.527	0.	23.429	260683.	0.
SM	1170.358	31891918.	0.	973.451	0.	4160.074	66221056.	0.
AV	4.240	115550.	0.	3.527	0.	15.073	239931.	0.
MONTHLY SUMMARY (SEP)								
MN	0.000	106563.	0.	3.527	0.	0.000	222863.	0.
MX	7.797	129226.	0.	3.527	0.	22.346	254815.	0.
SM	742.718	28648078.	0.	888.803	0.	2344.857	60019304.	0.
AV	2.947	113683.	0.	3.527	0.	9.305	238172.	0.
MONTHLY SUMMARY (OCT)								
MN	0.000	107843.	-118551.	3.527	-194161.	0.000	226287.	-113775.
MX	5.304	119915.	0.	3.527	0.	13.377	255239.	0.
SM	501.268	27068346.	-3666964.	846.479	-25629254.	1241.515	56908032.	-3445248.
AV	2.089	112785.	-15279.	3.527	-106789.	5.173	237117.	-14355.
MONTHLY SUMMARY (NOV)								
MN	0.000	112264.	-156175.	3.527	-194161.	0.000	234782.	-151770.
MX	0.000	134181.	0.	3.527	-194161.	0.000	293515.	0.
SM	0.000	27397674.	-2464515.	846.479	-46598644.	0.000	57965140.	-2298232.
AV	0.000	114157.	-10269.	3.527	-194161.	0.000	241521.	-9576.
MONTHLY SUMMARY (DEC)								
MN	0.000	112264.	-175380.	3.527	-194161.	0.000	234782.	-170338.
MX	0.000	113907.	-17.	3.527	-194161.	0.000	245606.	-17.
SM	0.000	28295804.	-9820738.	888.803	-48928576.	0.000	59216316.	-9481578.
AV	0.000	112285.	-38971.	3.527	-194161.	0.000	234985.	-37625.
YEARLY SUMMARY								
MN	0.000	102519.	-182275.	3.527	-194161.	0.000	215495.	-177133.
MX	8.360	139979.	0.	3.527	0.	24.524	293515.	0.
SM	3234.256	344460544.	-42508076.	10665.638	-316870784.	15827.083	719297472.	-40942904.
AV	1.070	113909.	-14057.	3.527	-104785.	5.234	237863.	-13539.

MMDDHH	AHU-4	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-5
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW
	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)
MONTHLY SUMMARY (JAN)								
MN	3.427	-188669.	0.000	228191.	-354079.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	228191.	-19.	7.066	-388968.	0.000
SM	863.662	-47544584.	0.000	57504216.	-20357810.	1780.563	-98019952.	0.000
AV	3.427	-188669.	0.000	228191.	-80785.	7.066	-388968.	0.000
MONTHLY SUMMARY (FEB)								
MN	3.427	-188669.	0.000	228191.	-349624.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	236077.	-16.	7.066	-388968.	0.000
SM	781.409	-43016528.	0.000	52065000.	-14912303.	1610.985	-88684720.	0.000
AV	3.427	-188669.	0.000	228355.	-65405.	7.066	-388968.	0.000
MONTHLY SUMMARY (MAR)								
MN	3.427	-188669.	0.000	223662.	-329375.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	241269.	-7.	7.066	-388968.	0.000
SM	945.916	-52072640.	0.000	63057224.	-5856586.	1950.140	-107355184.	0.000
AV	3.427	-188669.	0.000	228468.	-21220.	7.066	-388968.	0.000
MONTHLY SUMMARY (APR)								
MN	3.427	-188669.	0.000	225917.	-147999.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	264847.	0.	7.066	-388968.	0.000
SM	863.662	-47544584.	0.000	58400948.	-819406.	1780.563	-98019952.	0.000
AV	3.427	-188669.	0.000	231750.	-3252.	7.066	-388968.	0.000
MONTHLY SUMMARY (MAY)								
MN	3.427	0.	0.000	209446.	0.	7.066	0.	0.000
MX	3.427	0.	13.956	260502.	0.	7.066	0.	29.466
SM	863.662	0.	1160.694	58326024.	0.	1780.563	0.	2509.513
AV	3.427	0.	4.606	231452.	0.	7.066	0.	9.958
MONTHLY SUMMARY (JUN)								
MN	3.427	0.	0.000	211743.	0.	7.066	0.	0.000
MX	3.427	0.	23.018	260979.	0.	7.066	0.	47.328
SM	904.789	0.	2998.948	61645844.	0.	1865.352	0.	6244.787
AV	3.427	0.	11.360	233507.	0.	7.066	0.	23.654
MONTHLY SUMMARY (JUL)								
MN	3.427	0.	0.000	212658.	0.	7.066	0.	0.000
MX	3.427	0.	23.832	253903.	0.	7.066	0.	49.001
SM	822.535	0.	3669.609	56193340.	0.	1695.774	0.	7567.615
AV	3.427	0.	15.290	234139.	0.	7.066	0.	31.532

	AHU-4	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-5
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW
	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)
MONTHLY SUMMARY (AUG)								
MN	3.427	0.	0.000	217001.	0.	7.066	0.	0.000
MX	3.427	0.	22.778	253321.	0.	7.066	0.	46.841
SM	945.916	0.	4040.966	64362100.	0.	1950.140	0.	8364.633
AV	3.427	0.	14.641	233196.	0.	7.066	0.	30.307
MONTHLY SUMMARY (SEP)								
MN	3.427	0.	0.000	216673.	0.	7.066	0.	0.000
MX	3.427	0.	21.763	252291.	0.	7.066	0.	44.718
SM	863.662	0.	2294.128	58334852.	0.	1780.563	0.	4799.470
AV	3.427	0.	9.104	231488.	0.	7.066	0.	19.046
MONTHLY SUMMARY (OCT)								
MN	3.427	-188669.	0.000	219910.	-224627.	7.066	-388968.	0.000
MX	3.427	0.	13.146	248129.	0.	7.066	0.	27.533
SM	822.535	-24904306.	1219.089	55310256.	-6274902.	1695.774	-51343792.	2574.720
AV	3.427	-103768.	5.080	230459.	-26145.	7.066	-213932.	10.728
MONTHLY SUMMARY (NOV)								
MN	3.427	-188669.	0.000	228191.	-278733.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	285399.	0.	7.066	-388968.	0.000
SM	822.535	-45280556.	0.000	56347168.	-3257752.	1695.774	-93352336.	0.000
AV	3.427	-188669.	0.000	234780.	-13574.	7.066	-388968.	0.000
MONTHLY SUMMARY (DEC)								
MN	3.427	-188669.	0.000	228191.	-330882.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	238776.	-16.	7.066	-388968.	0.000
SM	863.662	-47544584.	0.000	57554808.	-15127757.	1780.563	-98019952.	0.000
AV	3.427	-188669.	0.000	228392.	-60031.	7.066	-388968.	0.000
YEARLY SUMMARY								
MN	3.427	-188669.	0.000	209446.	-354079.	7.066	-388968.	0.000
MX	3.427	0.	23.832	285399.	0.	7.066	0.	49.001
SM	10363.945	-307907776.	15383.433	699101824.	-66606508.	21366.754	-634795904.	32060.740
AV	3.427	-101821.	5.087	231184.	-22026.	7.066	-209919.	10.602

ENTECH ENGINEERING READING, PA 19603		RZDOE - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE		DOR-2.1D 6/ 7/1996		8:49:38 SDL RUN 1		
H-1		= HOURLY-REPORT		EMCS STUDY		PAGE 1- 4		
MMDDHH	AHU-5	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-7	AHU-7
	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	469216.	-409854.	8.087	-445181.	0.000	532162.	-497673.	9.184
MX	469216.	-20.	8.087	-445181.	0.000	532162.	-35791.	9.184
SM	118242448.	-26948602.	2037.887	-112185680.	0.000	134104824.	-66571272.	2314.437
AV	469216.	-106939.	8.087	-445181.	0.000	532162.	-264172.	9.184
MONTHLY SUMMARY (FEB)								
MN	469216.	-405145.	8.087	-445181.	0.000	532162.	-493149.	9.184
MX	487368.	-16.	8.087	-445181.	0.000	551958.	-20.	9.184
SM	107078592.	-18976794.	1843.803	-101501328.	0.000	121426232.	-49481696.	2094.015
AV	469643.	-83232.	8.087	-445181.	0.000	532571.	-217025.	9.184
MONTHLY SUMMARY (MAR)								
MN	460661.	-367909.	8.087	-445181.	0.000	522703.	-457527.	9.184
MX	498176.	-7.	8.087	-445181.	0.000	563698.	-12.	9.184
SM	129726664.	-7454486.	2231.972	-122870032.	0.000	147091488.	-32742656.	2534.859
AV	470024.	-27009.	8.087	-445181.	0.000	532940.	-118633.	9.184
MONTHLY SUMMARY (APR)								
MN	464540.	-156510.	8.087	-445181.	0.000	526859.	-404122.	9.184
MX	549087.	0.	8.087	-445181.	0.000	623112.	-4.	9.184
SM	120387984.	-1103932.	2037.887	-112185680.	0.000	136416784.	-11087442.	2314.437
AV	477730.	-4381.	8.087	-445181.	0.000	541336.	-43998.	9.184
MONTHLY SUMMARY (MAY)								
MN	430671.	0.	8.087	0.	0.000	488446.	0.	9.184
MX	535383.	0.	8.087	0.	33.056	605018.	0.	9.184
SM	119884328.	0.	2037.887	0.	2777.922	135878848.	0.	2314.437
AV	475731.	0.	8.087	0.	11.023	539202.	0.	9.184
MONTHLY SUMMARY (JUN)								
MN	435792.	0.	8.087	0.	0.000	494338.	0.	9.184
MX	536264.	0.	8.087	0.	53.753	606143.	0.	9.184
SM	126690568.	0.	2134.929	0.	7123.375	143485872.	0.	2424.648
AV	479889.	0.	8.087	0.	26.982	543507.	0.	9.184
MONTHLY SUMMARY (JUL)								
MN	437276.	0.	8.087	0.	0.000	495937.	0.	9.184
MX	521802.	0.	8.087	0.	55.566	583714.	0.	9.184
SM	115503336.	0.	1940.845	0.	8595.471	130803496.	0.	2204.226
AV	481264.	0.	8.087	0.	35.814	545015.	0.	9.184

	AHU-5	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-7	AHU-7
	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	446134.	0.	8.087	0.	0.000	505647.	0.	9.184
MX	520600.	0.	8.087	0.	53.123	588573.	0.	9.184
SM	132277800.	0.	2231.972	0.	9423.399	149834976.	0.	2534.859
AV	479267.	0.	8.087	0.	34.143	542880.	0.	9.184
MONTHLY SUMMARY (SEP)								
MN	445384.	0.	8.087	0.	0.000	504704.	0.	9.184
MX	509230.	0.	8.087	0.	50.501	573994.	0.	9.184
SM	119894504.	0.	2037.887	0.	5338.379	135805296.	0.	2314.437
AV	475772.	0.	8.087	0.	21.184	538910.	0.	9.184
MONTHLY SUMMARY (OCT)								
MN	452026.	-257708.	8.087	-445181.	0.000	511206.	-397944.	9.184
MX	511213.	0.	8.087	0.	30.299	579252.	0.	9.184
SM	113725536.	-8149398.	1940.845	-58763920.	2851.344	128893016.	-17295524.	2204.226
AV	473856.	-33956.	8.087	-244850.	11.881	537054.	-72065.	9.184
MONTHLY SUMMARY (NOV)								
MN	469216.	-325912.	8.087	-445181.	0.000	532162.	-450335.	9.184
MX	589333.	0.	8.087	-445181.	0.000	667397.	-1.	9.184
SM	116043384.	-5326410.	1940.845	-106843504.	0.000	131463488.	-26999964.	2204.226
AV	483514.	-22193.	8.087	-445181.	0.000	547765.	-112500.	9.184
MONTHLY SUMMARY (DEC)								
MN	469216.	-381895.	8.087	-445181.	0.000	532162.	-466143.	9.184
MX	493423.	-16.	8.087	-445181.	0.000	557337.	-8031.	9.184
SM	118369656.	-21143076.	2037.887	-112185680.	0.000	134228352.	-57160604.	2314.437
AV	469721.	-83901.	8.087	-445181.	0.000	532652.	-226828.	9.184
YEARLY SUMMARY								
MN	430671.	-409854.	8.087	-445181.	0.000	488446.	-497673.	9.184
MX	589333.	0.	8.087	0.	55.566	667397.	0.	9.184
SM	1437824896.	-89102688.	24454.646	-726535808.	36109.887	1629432704.	-261339152.	27773.246
AV	475471.	-29465.	8.087	-240257.	11.941	538834.	-86422.	9.184

MMDDHH	AHU-7	AHU-7	AHU-7
	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR
	---- (78)	---- (47)	---- (70)
MONTHLY SUMMARY (JAN)			
MN	-505594.	0.000	588302.
MX	-505594.	0.000	588302.
SM	-127409696.	0.000	148252240.
AV	-505594.	0.000	588303.
MONTHLY SUMMARY (FEB)			
MN	-505594.	0.000	588302.
MX	-505594.	0.000	599212.
SM	-115275440.	0.000	134160864.
AV	-505594.	0.000	588425.
MONTHLY SUMMARY (MAR)			
MN	-505594.	0.000	573735.
MX	-505594.	0.000	614393.
SM	-139543952.	0.000	162390208.
AV	-505594.	0.000	588370.
MONTHLY SUMMARY (APR)			
MN	-505594.	0.000	579526.
MX	-505594.	0.000	664917.
SM	-127409696.	0.000	149355760.
AV	-505594.	0.000	592682.
MONTHLY SUMMARY (MAY)			
MN	0.	0.000	539975.
MX	0.	31.198	654487.
SM	0.	2146.247	150262032.
AV	0.	8.517	596278.
MONTHLY SUMMARY (JUN)			
MN	0.	0.000	545604.
MX	0.	58.998	668065.
SM	0.	6868.215	158569856.
AV	0.	26.016	600643.
MONTHLY SUMMARY (JUL)			
MN	0.	0.000	548255.
MX	0.	61.095	645412.
SM	0.	8671.690	144714400.
AV	0.	36.132	602977.

	AHU-7	AHU-7	AHU-7
	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR
	---- (78)	---- (47)	---- (70)
MONTHLY SUMMARY (AUG)			
MN	0.	0.000	558334.
MX	0.	58.273	651323.
SM	0.	9346.352	165837232.
AV	0.	33.864	600860.
MONTHLY SUMMARY (SEP)			
MN	0.	0.000	556998.
MX	0.	55.176	633637.
SM	0.	4968.137	150119136.
AV	0.	19.715	595711.
MONTHLY SUMMARY (OCT)			
MN	-505594.	0.000	565135.
MX	0.	26.538	634157.
SM	-66738412.	2395.775	142327792.
AV	-278077.	9.982	593032.
MONTHLY SUMMARY (NOV)			
MN	-505594.	0.000	588302.
MX	-505594.	0.000	724427.
SM	-121342568.	0.000	144583168.
AV	-505594.	0.000	602430.
MONTHLY SUMMARY (DEC)			
MN	-505594.	0.000	588302.
MX	-505594.	0.000	604343.
SM	-127409696.	0.000	148304384.
AV	-505594.	0.000	588509.
YEARLY SUMMARY			
MN	-505594.	0.000	539975.
MX	0.	61.095	724427.
SM	-825129472.	34396.414	1798877056.
AV	-272860.	11.374	594867.

WEATHER FILE- BALTIMORE, MD



NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY B ARE IN MWH (THOUSANDS OF KWH)

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
ENTRIES FOLLOWED BY B ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING      E2DOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/ 7/1996    8:49:38    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    EMCS STUDY  
 REPORT- PS-B    MONTHLY PEAK AND TOTAL ENERGY USE    WEATHER FILE- BALTIMORE, MD

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MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	270.819	469.414
JAN	PEAK (KBTU)	1007.105	2498.120
	DY/HR	31/17	16/ 9
	TOTAL (MBTU)	243.263	390.134
FEB	PEAK (KBTU)	1007.105	2508.963
	DY/HR	25/ 9	13/10
	TOTAL (MBTU)	276.715	259.069
MAR	PEAK (KBTU)	1007.105	2282.573
	DY/HR	22/ 9	7/ 7
	TOTAL (MBTU)	251.405	157.878
APR	PEAK (KBTU)	999.814	1792.505
	DY/HR	11/ 8	10/ 7
	TOTAL (MBTU)	301.408	0.000
MAY	PEAK (KBTU)	1350.296	0.000
	DY/HR	26/16	31/ 1
	TOTAL (MBTU)	359.045	0.000
JUN	PEAK (KBTU)	1670.330	0.000
	DY/HR	29/16	30/ 1
	TOTAL (MBTU)	381.763	0.000
JUL	PEAK (KBTU)	1702.265	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	405.468	0.000
AUG	PEAK (KBTU)	1690.264	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	333.281	0.000
SEP	PEAK (KBTU)	1652.473	0.000
	DY/HR	2/14	30/ 1
	TOTAL (MBTU)	298.583	116.488
OCT	PEAK (KBTU)	1339.631	1768.079
	DY/HR	13/16	17/ 7
	TOTAL (MBTU)	243.907	170.005
NOV	PEAK (KBTU)	1007.105	2084.039
	DY/HR	28/ 9	25/ 7
	TOTAL (MBTU)	265.088	364.136
DEC	PEAK (KBTU)	1007.105	2309.298
	DY/HR	27/10	12/ 7
	ONE YEAR	3630.745	1927.124
	USE/PEAK	1702.265	2508.963

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 8:49:38 PDL RUN 1  
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	1262.8	100.0
LOAD SATISFIED	1262.8	100.0
TOTAL LOAD ON PLANT	1262.8	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	3630.7	100.0
LOAD SATISFIED	3630.7	100.0
TOTAL LOAD ON PLANT	3630.8	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 6/ 7/1996 8:49:38 PDL RUN 1  
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	1262.8	1262.8	0.000	0.000	0
ELECTRICAL LOADS	3630.8	3630.7	0.000	0.000	0

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 8:49:38 PDL RUN 1  
EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.107	1.924	2 13 10	2.500	4728			

ENTECH ENGINEERING	BZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D	6/ 7/1996	8:49:38	PDL RUN 1
READING, PA 19603	FT. GEORGE G. MEADE	EMCS STUDY			
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD			

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E Q U I P M E N T      T O T A L S

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HW-BOILER	140.6		
NOMINAL SIZE (MBTU)		2.500	
NUMBER INSTALLED		2	
FIRST COST (K\$)	131.1	131.1	
ANNUAL COST (K\$)	4.2	4.2	
CYCLICAL COST (K\$)	5.4	5.4	
-----TOTAL----- (K\$)		140.6	
<hr/>			
EQUIPMENT TOTAL	140.6		

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	85.31	1927.11
SPACE COOL	573.91	0.00
HVAC AUX	597.38	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	1721.75	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	652.34	0.00
	-----	-----
TOTAL	3630.69	1927.11

TOTAL SITE ENERGY    5557.87 MBTU    64.2 KBTU/SQFT-YR GROSS-AREA    64.2 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY    12830.26 MBTU    148.1 KBTU/SQFT-YR GROSS-AREA    148.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 46.2  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED    = 0.0

NOTE    ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND.    ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996  
EMCS STUDY

8:49:38 PDL RUN 1

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MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR
	---- ( 1 )	---- ( 3 )	---- ( 4 )
MONTHLY SUMMARY (JAN)			
MN	34703.	3054.	56709.
MX	1914559.	55000.	2498120.
SM	116005248.	18981616.	469414560.
AV	424738.	25513.	630934.
MONTHLY SUMMARY (FEB)			
MN	34703.	3054.	56709.
MX	1924474.	55000.	2508963.
SM	262131904.	15887078.	390134656.
AV	390077.	21641.	580558.
MONTHLY SUMMARY (MAR)			
MN	34703.	3054.	56709.
MX	1718923.	55000.	2282573.
SM	164683552.	12574327.	259070160.
AV	221349.	16901.	348213.
MONTHLY SUMMARY (APR)			
MN	34703.	3054.	56709.
MX	1284003.	55000.	1792505.
SM	97687128.	8256693.	157878080.
AV	135677.	11468.	219275.
MONTHLY SUMMARY (MAY)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (JUN)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (JUL)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.



ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 = HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOR-2.1D 6/ 7/1996  
EMCS STUDY

8:49:38 PDL RUN 1

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	HW-BOILE R LOAD BTU/HR ----( 1)	HW-BOILE R ELECTRIC USE BTU/HR ----( 3)	HW-BOILE R FUEL USE BTU/HR ----( 4)
MONTHLY SUMMARY (AUG)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (SEP)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (OCT)			
MN	0.	0.	0.
MX	1262667.	55000.	1768079.
SM	73277624.	5816414.	116488072.
AV	98491.	7818.	156570.
MONTHLY SUMMARY (NOV)			
MN	34703.	3054.	56709.
MX	1541120.	55000.	2084039.
SM	108425328.	8155529.	170005072.
AV	150591.	11327.	236118.
MONTHLY SUMMARY (DEC)			
MN	34703.	3054.	56709.
MX	1743031.	55000.	2309298.
SM	240614064.	15645103.	364136960.
AV	323406.	21028.	489431.
YEARLY SUMMARY			
MN	0.	0.	0.
MX	1924474.	55000.	2508963.
SM	1262824832.	85316760.	1927127552.
AV	144158.	9739.	219992.

BLDG 4552  
W/SETBACK & VENT CONTROL  
FILE: FTM4552N

EMTECH ENGINEERING READING, PA 19603 H-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC PT. GEORGE G. MEADE			DOE-2.1D 6/ 7/1996 EMCS STUDY		9:43:16 SDL RUN 1
PAGE 1- 1								
MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5 )	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5 )	---- (49)	---- (78)
MONTHLY SUMMARY (JAN)								
MN	-98804.	1.819	-100150.	0.000	112264.	-98804.	1.819	-100150.
MX	-26860.	1.819	-100150.	0.000	112264.	-26860.	1.819	-100150.
SM	-15609543.	458.451	-25237706.	0.000	28290524.	-15609543.	458.451	-25237706.
AV	-61943.	1.819	-100150.	0.000	112264.	-61943.	1.819	-100150.
MONTHLY SUMMARY (FEB)								
MN	-98368.	1.819	-100150.	0.000	112264.	-98368.	1.819	-100150.
MX	-31706.	1.819	-100150.	0.000	112264.	-31706.	1.819	-100150.
SM	-15970181.	414.789	-22834114.	0.000	25596188.	-15970181.	414.789	-22834114.
AV	-70045.	1.819	-100150.	0.000	112264.	-70045.	1.819	-100150.
MONTHLY SUMMARY (MAR)								
MN	-96537.	1.819	-100150.	0.000	109484.	-96537.	1.819	-100150.
MX	-28203.	1.819	-100150.	0.000	115554.	-28203.	1.819	-100150.
SM	-18141856.	502.113	-27641298.	0.000	30978030.	-18141856.	502.113	-27641298.
AV	-65731.	1.819	-100150.	0.000	112239.	-65731.	1.819	-100150.
MONTHLY SUMMARY (APR)								
MN	-95719.	1.819	-100150.	0.000	105514.	-95719.	1.819	-100150.
MX	-16324.	1.819	-100150.	0.000	118746.	-16324.	1.819	-100150.
SM	-13707303.	458.451	-25237706.	0.000	28321952.	-13707303.	458.451	-25237706.
AV	-54394.	1.819	-100150.	0.000	112389.	-54394.	1.819	-100150.
MONTHLY SUMMARY (MAY)								
MN	0.	1.819	0.	0.000	103042.	0.	1.819	0.
MX	0.	1.819	0.	0.000	126379.	0.	1.819	0.
SM	0.	458.451	0.	0.000	28568482.	0.	458.451	0.
AV	0.	1.819	0.	0.000	113367.	0.	1.819	0.
MONTHLY SUMMARY (JUN)								
MN	0.	1.819	0.	0.000	102519.	0.	1.819	0.
MX	0.	1.819	0.	3.863	134054.	0.	1.819	0.
SM	0.	480.282	0.	84.674	31053406.	0.	480.282	0.
AV	0.	1.819	0.	0.321	117627.	0.	1.819	0.
MONTHLY SUMMARY (JUL)								
MN	0.	1.819	0.	0.000	104622.	0.	1.819	0.
MX	0.	1.819	0.	6.710	139393.	0.	1.819	0.
SM	0.	436.620	0.	664.173	28496332.	0.	436.620	0.
AV	0.	1.819	0.	2.767	118735.	0.	1.819	0.

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	0.	1.819	0.	0.000	106633.	0.	1.819	0.
MX	0.	1.819	0.	8.417	129622.	0.	1.819	0.
SM	0.	502.113	0.	1194.629	31887028.	0.	502.113	0.
AV	0.	1.819	0.	4.328	115533.	0.	1.819	0.
MONTHLY SUMMARY (SEP)								
MN	0.	1.819	0.	0.000	106559.	0.	1.819	0.
MX	0.	1.819	0.	7.804	128974.	0.	1.819	0.
SM	0.	458.451	0.	789.149	28657166.	0.	458.451	0.
AV	0.	1.819	0.	3.132	113719.	0.	1.819	0.
MONTHLY SUMMARY (OCT)								
MN	-58879.	1.819	-100150.	0.000	107843.	-58879.	1.819	-100150.
MX	0.	1.819	0.	5.349	119968.	0.	1.819	0.
SM	-1918350.	436.620	-13219748.	541.759	27072690.	-1918350.	436.620	-13219748.
AV	-7993.	1.819	-55082.	2.257	112803.	-7993.	1.819	-55082.
MONTHLY SUMMARY (NOV)								
MN	-83024.	1.819	-100150.	0.000	112264.	-83024.	1.819	-100150.
MX	-13.	1.819	-100150.	0.000	134181.	-13.	1.819	-100150.
SM	-2699061.	436.620	-24035910.	0.000	27397676.	-2699061.	436.620	-24035910.
AV	-11246.	1.819	-100150.	0.000	114157.	-11246.	1.819	-100150.
MONTHLY SUMMARY (DEC)								
MN	-96462.	1.819	-100150.	0.000	112264.	-96462.	1.819	-100150.
MX	-5315.	1.819	-100150.	0.000	113909.	-5315.	1.819	-100150.
SM	-9479130.	458.451	-25237706.	0.000	28295810.	-9479130.	458.451	-25237706.
AV	-37616.	1.819	-100150.	0.000	112285.	-37616.	1.819	-100150.
YEARLY SUMMARY								
MN	-98804.	1.819	-100150.	0.000	102519.	-98804.	1.819	-100150.
MX	0.	1.819	0.	8.417	139393.	0.	1.819	0.
SM	-77525424.	5501.409	-163444192.	3274.385	344615296.	-77525424.	5501.409	-163444192.
AV	-25637.	1.819	-54049.	1.083	113960.	-25637.	1.819	-54049.

MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	----(47)	----(70)	----( 5)	----(49)	----(78)	----(47)	----(70)	----( 5)
MONTHLY SUMMARY (JAN)								
MN	0.000	112264.	-185407.	3.527	-194161.	0.000	234782.	-180246.
MX	0.000	112264.	-20.	3.527	-194161.	0.000	234782.	-20.
SM	0.000	28290524.	-12728196.	888.803	-48928576.	0.000	59164984.	-12279444.
AV	0.000	112264.	-50509.	3.527	-194161.	0.000	234782.	-48728.
MONTHLY SUMMARY (FEB)								
MN	0.000	112264.	-180963.	3.527	-194161.	0.000	234782.	-175858.
MX	0.000	112264.	-17.	3.527	-194161.	0.000	243000.	-17.
SM	0.000	25596188.	-9314552.	804.155	-44268712.	0.000	53569300.	-9033797.
AV	0.000	112264.	-40853.	3.527	-194161.	0.000	234953.	-39622.
MONTHLY SUMMARY (MAR)								
MN	0.000	109484.	-176171.	3.527	-194161.	0.000	230121.	-170248.
MX	0.000	115554.	-9.	3.527	-194161.	0.000	248295.	-9.
SM	0.000	30978030.	-3994057.	973.451	-53588440.	0.000	64878984.	-3864896.
AV	0.000	112239.	-14471.	3.527	-194161.	0.000	235069.	-14003.
MONTHLY SUMMARY (APR)								
MN	0.000	105514.	-84801.	3.527	-194161.	0.000	232442.	-82925.
MX	0.000	118746.	0.	3.527	-194161.	0.000	272634.	0.
SM	0.000	28321952.	-552051.	888.803	-48928576.	0.000	60097972.	-553431.
AV	0.000	112389.	-2191.	3.527	-194161.	0.000	238484.	-2196.
MONTHLY SUMMARY (MAY)								
MN	0.000	103042.	0.	3.527	0.	0.000	215495.	0.
MX	0.000	126379.	0.	3.527	0.	14.468	268083.	0.
SM	0.000	28568482.	0.	888.803	0.	1227.182	60013592.	0.
AV	0.000	113367.	0.	3.527	0.	4.870	238149.	0.
MONTHLY SUMMARY (JUN)								
MN	0.000	102519.	0.	3.527	0.	0.000	217514.	0.
MX	3.863	134054.	0.	3.527	0.	23.697	268551.	0.
SM	84.674	31053406.	0.	931.127	0.	3107.542	63425572.	0.
AV	0.321	117627.	0.	3.527	0.	11.771	240248.	0.
MONTHLY SUMMARY (JUL)								
MN	0.000	104622.	0.	3.527	0.	0.000	218800.	0.
MX	6.710	139393.	0.	3.527	0.	24.521	261276.	0.
SM	664.173	28496332.	0.	846.479	0.	3799.599	57806224.	0.
AV	2.767	118735.	0.	3.527	0.	15.832	240859.	0.

	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	----(47)	----(70)	----( 5)	----(49)	----(78)	----(47)	----(70)	----( 5)
MONTHLY SUMMARY (AUG)								
MN	0.000	106633.	0.	3.527	0.	0.000	223275.	0.
MX	8.417	129622.	0.	3.527	0.	23.429	260682.	0.
SM	1194.629	31887028.	0.	973.451	0.	4141.185	66234000.	0.
AV	4.328	115533.	0.	3.527	0.	15.004	239978.	0.
MONTHLY SUMMARY (SEP)								
MN	0.000	106559.	0.	3.527	0.	0.000	222851.	0.
MX	7.804	128974.	0.	3.527	0.	22.343	254819.	0.
SM	789.149	28657166.	0.	888.803	0.	2348.402	60021720.	0.
AV	3.132	113719.	0.	3.527	0.	9.319	238181.	0.
MONTHLY SUMMARY (OCT)								
MN	0.000	107843.	-113042.	3.527	-194161.	0.000	226538.	-108132.
MX	5.349	119968.	0.	3.527	0.	13.419	255243.	0.
SM	541.759	27072690.	-3569131.	846.479	-25629254.	1283.699	56907644.	-3347182.
AV	2.257	112803.	-14871.	3.527	-106789.	5.349	237115.	-13947.
MONTHLY SUMMARY (NOV)								
MN	0.000	112264.	-156633.	3.527	-194161.	0.000	234782.	-152206.
MX	0.000	134181.	0.	3.527	-194161.	0.000	293515.	0.
SM	0.000	27397676.	-2446146.	846.479	-46598644.	0.000	57965476.	-2280467.
AV	0.000	114157.	-10192.	3.527	-194161.	0.000	241523.	-9502.
MONTHLY SUMMARY (DEC)								
MN	0.000	112264.	-177129.	3.527	-194161.	0.000	234782.	-171890.
MX	0.000	113909.	-17.	3.527	-194161.	0.000	245625.	-17.
SM	0.000	28295810.	-9779784.	888.803	-48928576.	0.000	59216500.	-9446874.
AV	0.000	112285.	-38809.	3.527	-194161.	0.000	234986.	-37488.
YEARLY SUMMARY								
MN	0.000	102519.	-185407.	3.527	-194161.	0.000	215495.	-180246.
MX	8.417	139393.	0.	3.527	0.	24.521	293515.	0.
SM	1274.385	344615296.	-42383920.	10665.638	-316870784.	15907.609	719301952.	-40806088.
AV	1.083	113960.	-14016.	3.527	-104785.	5.260	237864.	-13494.

MMDDHH	AHU-4	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-5
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW
	----(49)	----(78)	----(47)	----(70)	----( 5)	----(49)	----(78)	----(47)
MONTHLY SUMMARY (JAN)								
MN	3.427	-188669.	0.000	228191.	-366964.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	228191.	-19.	7.066	-388968.	0.000
SM	863.662	-47544584.	0.000	57504216.	-20277076.	1780.563	-98019952.	0.000
AV	3.427	-188669.	0.000	228191.	-80465.	7.066	-388968.	0.000
MONTHLY SUMMARY (FEB)								
MN	3.427	-188669.	0.000	228191.	-357765.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	236118.	-16.	7.066	-388968.	0.000
SM	781.409	-43016528.	0.000	52065280.	-14875205.	1610.985	-88684720.	0.000
AV	3.427	-188669.	0.000	228356.	-65242.	7.066	-388968.	0.000
MONTHLY SUMMARY (MAR)								
MN	3.427	-188669.	0.000	223662.	-331696.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	241295.	-7.	7.066	-388968.	0.000
SM	945.916	-52072640.	0.000	63057412.	-5749768.	1950.140	-107355184.	0.000
AV	3.427	-188669.	0.000	228469.	-20832.	7.066	-388968.	0.000
MONTHLY SUMMARY (APR)								
MN	3.427	-188669.	0.000	225917.	-142724.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	264850.	0.	7.066	-388968.	0.000
SM	863.662	-47544584.	0.000	58401624.	-814750.	1780.563	-98019952.	0.000
AV	3.427	-188669.	0.000	231752.	-3233.	7.066	-388968.	0.000
MONTHLY SUMMARY (MAY)								
MN	3.427	0.	0.000	209446.	0.	7.066	0.	0.000
MX	3.427	0.	13.929	260491.	0.	7.066	0.	29.393
SM	863.662	0.	1182.604	58330816.	0.	1780.563	0.	2549.937
AV	3.427	0.	4.693	231471.	0.	7.066	0.	10.119
MONTHLY SUMMARY (JUN)								
MN	3.427	0.	0.000	211739.	0.	7.066	0.	0.000
MX	3.427	0.	23.017	260967.	0.	7.066	0.	47.329
SM	904.789	0.	3006.874	61645384.	0.	1865.352	0.	6271.426
AV	3.427	0.	11.390	233505.	0.	7.066	0.	23.755
MONTHLY SUMMARY (JUL)								
MN	3.427	0.	0.000	212658.	0.	7.066	0.	0.000
MX	3.427	0.	23.829	253901.	0.	7.066	0.	48.996
SM	822.535	0.	3667.071	56193508.	0.	1695.774	0.	7564.436
AV	3.427	0.	15.279	234140.	0.	7.066	0.	31.518

	AHU-4	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-5
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW
	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)
MONTHLY SUMMARY (AUG)								
MN	3.427	0.	0.000	217000.	0.	7.066	0.	0.000
MX	3.427	0.	22.778	253325.	0.	7.066	0.	46.841
SM	945.916	0.	4049.351	64359268.	0.	1950.140	0.	8331.557
AV	3.427	0.	14.672	233186.	0.	7.066	0.	30.187
MONTHLY SUMMARY (SEP)								
MN	3.427	0.	0.000	216681.	0.	7.066	0.	0.000
MX	3.427	0.	21.766	252291.	0.	7.066	0.	44.711
SM	863.662	0.	2301.460	58336036.	0.	1780.563	0.	4806.788
AV	3.427	0.	9.133	231492.	0.	7.066	0.	19.075
MONTHLY SUMMARY (OCT)								
MN	3.427	-188669.	0.000	220149.	-212039.	7.066	-388968.	0.000
MX	3.427	0.	13.202	248128.	0.	7.066	0.	27.631
SM	822.535	-24904306.	1259.489	55311240.	-6011561.	1695.774	-51343792.	2660.644
AV	3.427	-103768.	5.248	230464.	-25048.	7.066	-213932.	11.086
MONTHLY SUMMARY (NOV)								
MN	3.427	-188669.	0.000	228191.	-276301.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	285399.	0.	7.066	-388968.	0.000
SM	822.535	-45280556.	0.000	56347512.	-3174742.	1695.774	-93352336.	0.000
AV	3.427	-188669.	0.000	234781.	-13228.	7.066	-388968.	0.000
MONTHLY SUMMARY (DEC)								
MN	3.427	-188669.	0.000	228191.	-333383.	7.066	-388968.	0.000
MX	3.427	-188669.	0.000	238795.	-16.	7.066	-388968.	0.000
SM	863.662	-47544584.	0.000	57554992.	-15036753.	1780.563	-98019952.	0.000
AV	3.427	-188669.	0.000	228393.	-59670.	7.066	-388968.	0.000
YEARLY SUMMARY								
MN	3.427	-188669.	0.000	209446.	-366964.	7.066	-388968.	0.000
MX	3.427	0.	23.829	285399.	0.	7.066	0.	48.996
SM	10363.945	-307907776.	15466.849	699107328.	-65939848.	21366.754	-634795904.	32184.787
AV	3.427	-101821.	5.115	231186.	-21806.	7.066	-209919.	10.643

ENTECH ENGINEERING READING, PA 19603 H-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC PT. GEORGE G. MEADE			DOB-2.1D 6/ 7/1996 EMCS STUDY		9:43:16 SDL RUN 1
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MMDDHH	AHU-5	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-7	AHU-7
	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)
MONTHLY SUMMARY (JAN)								
MN	469216.	-420924.	8.087	-445181.	0.000	532162.	-498448.	9.184
MX	469216.	-20.	8.087	-445181.	0.000	532162.	-35772.	9.184
SM	118242448.	-26904050.	2037.887	-112185680.	0.000	134104824.	-66425276.	2314.437
AV	469216.	-106762.	8.087	-445181.	0.000	532162.	-263592.	9.184
MONTHLY SUMMARY (FEB)								
MN	469216.	-413088.	8.087	-445181.	0.000	532162.	-493392.	9.184
MX	487522.	-16.	8.087	-445181.	0.000	552079.	-20.	9.184
SM	107079984.	-18969496.	1843.803	-101501328.	0.000	121427280.	-49448020.	2094.015
AV	469649.	-83200.	8.087	-445181.	0.000	532576.	-216877.	9.184
MONTHLY SUMMARY (MAR)								
MN	460670.	-368848.	8.087	-445181.	0.000	522703.	-451219.	9.184
MX	498286.	-7.	8.087	-445181.	0.000	563779.	-12.	9.184
SM	129727664.	-7361569.	2231.972	-122870032.	0.000	147092032.	-32842308.	2534.859
AV	470028.	-26672.	8.087	-445181.	0.000	532942.	-118994.	9.184
MONTHLY SUMMARY (APR)								
MN	464540.	-158062.	8.087	-445181.	0.000	526859.	-404111.	9.184
MX	549109.	0.	8.087	-445181.	0.000	624841.	-4.	9.184
SM	120424704.	-1122403.	2037.887	-112185680.	0.000	136483648.	-11085033.	2314.437
AV	477876.	-4454.	8.087	-445181.	0.000	541602.	-43988.	9.184
MONTHLY SUMMARY (MAY)								
MN	430671.	0.	8.087	0.	0.000	488446.	0.	9.184
MX	535353.	0.	8.087	0.	33.663	605028.	0.	9.184
SM	119890104.	0.	2037.887	0.	2867.693	135877056.	0.	2314.437
AV	475754.	0.	8.087	0.	11.380	539195.	0.	9.184
MONTHLY SUMMARY (JUN)								
MN	435785.	0.	8.087	0.	0.000	494333.	0.	9.184
MX	536240.	0.	8.087	0.	53.752	606119.	0.	9.184
SM	126683928.	0.	2134.929	0.	7156.442	143482992.	0.	2424.648
AV	479863.	0.	8.087	0.	27.108	543496.	0.	9.184
MONTHLY SUMMARY (JUL)								
MN	437276.	0.	8.087	0.	0.000	495937.	0.	9.184
MX	521797.	0.	8.087	0.	55.560	583759.	0.	9.184
SM	115501968.	0.	1940.845	0.	8594.998	130798560.	0.	2204.226
AV	481258.	0.	8.087	0.	35.812	544994.	0.	9.184



	AHU-5	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-7	AHU-7
	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)
MONTHLY SUMMARY (AUG)								
MN	446132.	0.	8.087	0.	0.000	505647.	0.	9.184
MX	520596.	0.	8.087	0.	53.123	588585.	0.	9.184
SM	132298496.	0.	2231.972	0.	9429.646	149837072.	0.	2534.859
AV	479342.	0.	8.087	0.	34.165	542888.	0.	9.184
MONTHLY SUMMARY (SEP)								
MN	445361.	0.	8.087	0.	0.000	504704.	0.	9.184
MX	509231.	0.	8.087	0.	50.501	573998.	0.	9.184
SM	119900160.	0.	2037.887	0.	5324.457	115828336.	0.	2314.437
AV	475794.	0.	8.087	0.	21.129	539001.	0.	9.184
MONTHLY SUMMARY (OCT)								
MN	452484.	-252937.	8.087	-445181.	0.000	511548.	-386883.	9.184
MX	511214.	0.	8.087	0.	30.535	579256.	0.	9.184
SM	113723072.	-7855142.	1940.845	-58763920.	2949.240	128896496.	-17104040.	2204.226
AV	473846.	-32730.	8.087	-244850.	12.288	537069.	-71267.	9.184
MONTHLY SUMMARY (NOV)								
MN	469216.	-326640.	8.087	-445181.	0.000	532162.	-454829.	9.184
MX	589333.	0.	8.087	-445181.	0.000	667399.	-1.	9.184
SM	116048840.	-5286153.	1940.845	-106843504.	0.000	131464904.	-26953560.	2204.226
AV	483537.	-22026.	8.087	-445181.	0.000	547770.	-112307.	9.184
MONTHLY SUMMARY (DEC)								
MN	469216.	-385056.	8.087	-445181.	0.000	532162.	-476165.	9.184
MX	493490.	-16.	8.087	-445181.	0.000	557396.	-8069.	9.184
SM	118370320.	-21050424.	2037.887	-112185680.	0.000	134228896.	-56992272.	2314.437
AV	469724.	-83533.	8.087	-445181.	0.000	532654.	-226160.	9.184
YEARLY SUMMARY								
MN	430671.	-420924.	8.087	-445181.	0.000	488446.	-498448.	9.184
MX	589333.	0.	8.087	0.	55.560	667399.	0.	9.184
SM	1437891840.	-88549232.	24454.646	-726535808.	36322.473	1629522176.	-260850512.	27773.246
AV	475493.	-29282.	8.087	-240257.	12.011	538863.	-86260.	9.184

ENTECH ENGINEERING  
READING, PA 19603  
H-1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
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MMDHHR	AHU-7 HEATING CAPACITY BTU/HR ----(78)	AHU-7 COOLING ELECTRIC KW ----(47)	AHU-7 COOLING CAPACITY BTU/HR ----(70)
MONTHLY SUMMARY (JAN)			
MN	-505594.	0.000	588302.
MX	-505594.	0.000	588302.
SM	-127409696.	0.000	148252240.
AV	-505594.	0.000	588303.
MONTHLY SUMMARY (FEB)			
MN	-505594.	0.000	588302.
MX	-505594.	0.000	599249.
SM	-115275440.	0.000	134161016.
AV	-505594.	0.000	588426.
MONTHLY SUMMARY (MAR)			
MN	-505594.	0.000	573735.
MX	-505594.	0.000	614401.
SM	-139543952.	0.000	162390240.
AV	-505594.	0.000	588370.
MONTHLY SUMMARY (APR)			
MN	-505594.	0.000	579526.
MX	-505594.	0.000	664926.
SM	-127409696.	0.000	149355840.
AV	-505594.	0.000	592682.
MONTHLY SUMMARY (MAY)			
MN	0.	0.000	539975.
MX	0.	31.714	654467.
SM	0.	2367.536	150274816.
AV	0.	9.395	596329.
MONTHLY SUMMARY (JUN)			
MN	0.	0.000	545577.
MX	0.	58.995	667936.
SM	0.	6899.813	158572176.
AV	0.	26.136	600652.
MONTHLY SUMMARY (JUL)			
MN	0.	0.000	548255.
MX	0.	61.069	645462.
SM	0.	8638.538	144734224.
AV	0.	35.994	603059.

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	AHU-7	AHU-7	AHU-7
	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR
	---- (78)	---- (47)	---- (70)
MONTHLY SUMMARY (AUG)			
MN	0.	0.000	558335.
MX	0.	58.273	652224.
SM	0.	9330.791	165860944.
AV	0.	33.807	600945.
MONTHLY SUMMARY (SEP)			
MN	0.	0.000	556999.
MX	0.	55.176	636438.
SM	0.	5065.606	150163952.
AV	0.	20.102	595889.
MONTHLY SUMMARY (OCT)			
MN	-505594.	0.000	565135.
MX	0.	28.077	634217.
SM	-66738412.	2571.572	142356288.
AV	-278077.	10.715	593151.
MONTHLY SUMMARY (NOV)			
MN	-505594.	0.000	588302.
MX	-505594.	0.000	724427.
SM	-121342568.	0.000	144583184.
AV	-505594.	0.000	602430.
MONTHLY SUMMARY (DEC)			
MN	-505594.	0.000	588302.
MX	-505594.	0.000	604352.
SM	-127409696.	0.000	148304416.
AV	-505594.	0.000	588510.
YEARLY SUMMARY			
MN	-505594.	0.000	539975.
MX	0.	61.069	724427.
SM	-825129472.	34873.855	1799009280.
AV	-272860.	11.532	594911.



MONTH	S I T E E N E R G Y												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRD ENERGY	WASTED RCVRBL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	276.3	0.0	269.1 78.8E	0.0	0.0	0.0	0.0 0.0E	416.5	30.3 8.9E	0.0	416.5	685.7	1224.8
FEB	229.2	0.0	241.8 70.8E	0.0	0.0	0.0	0.0 0.0E	346.1	26.2 7.7E	0.0	346.1	587.9	1072.3
MAR	152.4	0.0	276.0 80.8E	0.0	0.0	0.0	0.0 0.0E	241.4	24.6 7.2E	0.0	241.4	517.3	1070.2
APR	91.4	0.0	252.1 73.8E	0.0	0.0	0.0	0.0 0.0E	148.3	20.1 5.9E	0.0	148.3	400.4	905.4
MAY	0.0	0.0	301.0 88.1E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	301.0	903.8
JUN	0.0	0.0	356.8 104.5E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	356.8	1071.4
JUL	0.0	0.0	375.7 110.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	375.7	1128.4
AUG	0.0	0.0	402.6 117.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	402.6	1209.1
SEP	0.0	0.0	331.0 96.9E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	331.0	994.0
OCT	66.0	0.0	296.7 86.9E	0.0	0.0	0.0	0.0 0.0E	106.3	12.0 3.5E	0.0	106.3	403.0	997.4
NOV	97.9	0.0	243.7 71.4E	0.0	0.0	0.0	0.0 0.0E	156.2	20.1 5.9E	0.0	156.2	399.9	888.0
DEC	215.6	0.0	264.4 77.4E	0.0	0.0	0.0	0.0 0.0E	331.5	27.6 8.1E	0.0	331.5	595.9	1125.4
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	1128.9	0.0	3611.0 1057.6E	0.0	0.0	0.0	0.0 0.0E	1746.3	160.9 47.1E	0.0	1746.3	5357.3	12590.1

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

ENTECH ENGINEERING  
 READING, PA 19603  
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
 PT. GEORGE G. MEADE  
 EMCS STUDY

DOR-2.1D 6/ 7/1996 9:43:16 PDL RUN 1  
 WEATHER FILE- BALTIMORE, MD

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	269.147	416.540
JAN	PEAK (KBTU)	1007.105	2463.224
	DY/HR	31/17	31/ 7
	TOTAL (MBTU)	241.825	346.084
FEB	PEAK (KBTU)	1007.105	2423.216
	DY/HR	25/ 9	14/ 7
	TOTAL (MBTU)	275.990	241.357
MAR	PEAK (KBTU)	1007.105	2280.586
	DY/HR	22/ 9	7/ 7
	TOTAL (MBTU)	252.107	148.308
APR	PEAK (KBTU)	999.805	1513.532
	DY/HR	11/ 8	11/ 7
	TOTAL (MBTU)	300.956	0.000
MAY	PEAK (KBTU)	1351.324	0.000
	DY/HR	6/16	31/ 1
	TOTAL (MBTU)	356.773	0.000
JUN	PEAK (KBTU)	1666.097	0.000
	DY/HR	10/16	30/ 1
	TOTAL (MBTU)	375.743	0.000
JUL	PEAK (KBTU)	1693.110	0.000
	DY/HR	25/14	31/ 1
	TOTAL (MBTU)	402.629	0.000
AUG	PEAK (KBTU)	1690.648	0.000
	DY/HR	18/17	31/ 1
	TOTAL (MBTU)	331.013	0.000
SEP	PEAK (KBTU)	1652.493	0.000
	DY/HR	2/14	30/ 1
	TOTAL (MBTU)	296.738	106.290
OCT	PEAK (KBTU)	1349.810	1725.433
	DY/HR	13/16	24/ 7
	TOTAL (MBTU)	243.684	156.248
NOV	PEAK (KBTU)	1007.105	2087.124
	DY/HR	28/ 9	25/ 7
	TOTAL (MBTU)	264.380	331.491
DEC	PEAK (KBTU)	1007.105	2330.328
	DY/HR	27/10	12/ 7
	ONE YEAR	3610.983	1746.318
	USE/PEAK	1693.110	2463.224

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 9:43:16 PDL RUN 1  
EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	1128.9	100.0
	-----	-----
LOAD SATISFIED	1128.9	100.0
TOTAL LOAD ON PLANT	1128.9	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	3611.0	100.0
	-----	-----
LOAD SATISFIED	3611.0	100.0
TOTAL LOAD ON PLANT	3611.1	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOB-2.1D 6/ 7/1996 9:43:16 PDL RUN 1  
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	1128.9	1128.9	0.000	0.000	0
ELECTRICAL LOADS	3611.1	3611.0	0.000	0.000	0



ENTECH ENGINEERING      EZDOR - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/ 7/1996    9:43:16    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    EMCS STUDY  
 REPORT- PS-H EQUIPMENT USE STATISTICS      WEATHER FILE- BALTIMORE, MD

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EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
			DAY	HR										
HW-BOILER	0.096	1.883	1	31	7	2.500	4728							

ENTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D	6/ 7/1996	9:43:16	PDL RUN 1
READING, PA 19603	PT. GEORGE G. MEADE	EMCS STUDY			
REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS		WEATHER FILE- BALTIMORE, MD			

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EQUIPMENT TOTALS

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HW-BOILER	140.6		
NOMINAL SIZE (MBTU)		2.500	
NUMBER INSTALLED		2	
FIRST COST (K\$)	131.1	131.1	
ANNUAL COST (K\$)	4.2	4.2	
CYCLICAL COST (K\$)	5.4	5.4	
-----TOTAL----- (K\$)		140.6	
<hr/>			
EQUIPMENT TOTAL	140.6		

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	80.55	1746.31
SPACE COOL	571.77	0.00
HVAC AUX	584.51	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	1721.74	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	652.34	0.00
	-----	-----
TOTAL	3610.92	1746.31

TOTAL SITE ENERGY    5357.30 MBTU    61.9 KBTU/SQFT-YR GROSS-AREA    61.9 KBTU/SQFT-YR NET-AREA  
 TOTAL SOURCE ENERGY    12590.11 MBTU    145.4 KBTU/SQFT-YR GROSS-AREA    145.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 43.7  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED                    = 0.0

NOTE    ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND.    ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 = HOURLY-REPORT

EDDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 9:43:16 PDL RUN 1  
EMCS STUDY

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MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR
	---- ( 1)	---- ( 3)	---- ( 4)
MONTHLY SUMMARY (JAN)			
MN	34703.	3054.	56709.
MX	1882698.	55000.	2463224.
SM	276315776.	17672312.	416540992.
AV	371392.	23753.	559867.
MONTHLY SUMMARY (FEB)			
MN	34703.	3054.	56709.
MX	1846262.	55000.	2423216.
SM	229214032.	14753322.	346084640.
AV	341092.	21954.	515007.
MONTHLY SUMMARY (MAR)			
MN	34703.	3054.	56709.
MX	1717133.	55000.	2280586.
SM	152394224.	11935420.	241357792.
AV	204831.	16042.	324406.
MONTHLY SUMMARY (APR)			
MN	34703.	3054.	56709.
MX	1042185.	55000.	1513532.
SM	91407888.	7834393.	148307616.
AV	126955.	10881.	205983.
MONTHLY SUMMARY (MAY)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (JUN)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (JUL)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.

ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 = HOURLY-REPORT

EDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

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EMCS STUDY

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	HW-BOILE R LOAD BTU/HR ---- ( 1)	HW-BOILE R ELECTRIC USE BTU/HR ---- ( 3)	HW-BOILE R FUEL USE BTU/HR ---- ( 4)
MONTHLY SUMMARY (AUG)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (SEP)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (OCT)			
MN	0.	0.	0.
MX	1225495.	55000.	1725433.
SM	66021264.	5498009.	106289792.
AV	88738.	7390.	142863.
MONTHLY SUMMARY (NOV)			
MN	34703.	3054.	56709.
MX	1543867.	55000.	2087124.
SM	97928032.	7884482.	156247968.
AV	136011.	10951.	217011.
MONTHLY SUMMARY (DEC)			
MN	34703.	3054.	56709.
MX	1762030.	55000.	2330328.
SM	215616416.	14979754.	331492032.
AV	289807.	20134.	445554.
YEARLY SUMMARY			
MN	0.	0.	0.
MX	1882698.	55000.	2463224.
SM	1128897536.	80557688.	1746320896.
AV	128870.	9196.	199352.

BLDG. #552

H/SETBACK 'ENT' CONTROL, 1

ECONOM. 2/2R

FILE FTM14552N

ENTECH ENGINEERING READING, PA 19603 H-1 = HOURLY-REPORT			EZDOR - ELITE SOFTWARE DEVELOPMENT INC FT. GEORGE G. MEADE			DOE-2.1D 6/ 7/1996 EMCS STUDY		10: 3: 6 SDL RUN 1
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MMDDHH	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (JAN)								
MN	-83819.	1.819	-114675.	0.000	112264.	-83819.	1.819	-114675.
MX	-21601.	1.819	-114675.	0.000	112264.	-21601.	1.819	-114675.
SM	-11202634.	458.451	-28898172.	0.000	28290524.	-11202634.	458.451	-28898172.
AV	-44455.	1.819	-114675.	0.000	112264.	-44455.	1.819	-114675.
MONTHLY SUMMARY (FEB)								
MN	-90551.	1.819	-114675.	0.000	112264.	-90551.	1.819	-114675.
MX	-27892.	1.819	-114675.	0.000	112264.	-27892.	1.819	-114675.
SM	-12216512.	414.789	-26145964.	0.000	25596188.	-12216512.	414.789	-26145964.
AV	-53581.	1.819	-114675.	0.000	112264.	-53581.	1.819	-114675.
MONTHLY SUMMARY (MAR)								
MN	-89679.	1.819	-114675.	0.000	109484.	-89679.	1.819	-114675.
MX	-27332.	1.819	-114675.	0.000	115623.	-27332.	1.819	-114675.
SM	-14677470.	502.113	-31650380.	0.000	30980110.	-14677470.	502.113	-31650380.
AV	-53179.	1.819	-114675.	0.000	112247.	-53179.	1.819	-114675.
MONTHLY SUMMARY (APR)								
MN	-86891.	1.819	-114675.	0.000	105153.	-86891.	1.819	-114675.
MX	-20566.	1.819	-114675.	0.000	119580.	-20566.	1.819	-114675.
SM	-11836402.	458.451	-28898172.	0.000	28297574.	-11836402.	458.451	-28898172.
AV	-46970.	1.819	-114675.	0.000	112292.	-46970.	1.819	-114675.
MONTHLY SUMMARY (MAY)								
MN	0.	1.819	0.	0.000	103042.	0.	1.819	0.
MX	0.	1.819	0.	0.000	124901.	0.	1.819	0.
SM	0.	458.451	0.	0.000	28460458.	0.	458.451	0.
AV	0.	1.819	0.	0.000	112938.	0.	1.819	0.
MONTHLY SUMMARY (JUN)								
MN	0.	1.819	0.	0.000	100601.	0.	1.819	0.
MX	0.	1.819	0.	2.792	132884.	0.	1.819	0.
SM	0.	480.282	0.	61.953	30513324.	0.	480.282	0.
AV	0.	1.819	0.	0.235	115581.	0.	1.819	0.
MONTHLY SUMMARY (JUL)								
MN	0.	1.819	0.	0.000	102925.	0.	1.819	0.
MX	0.	1.819	0.	4.490	137124.	0.	1.819	0.
SM	0.	436.620	0.	517.004	27377080.	0.	436.620	0.
AV	0.	1.819	0.	2.154	114071.	0.	1.819	0.

	AHU-1	AHU-1	AHU-1	AHU-1	AHU-1	AHU-2	AHU-2	AHU-2
	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR
	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)
MONTHLY SUMMARY (AUG)								
MN	0.	1.819	0.	0.000	102458.	0.	1.819	0.
MX	0.	1.819	0.	5.650	136956.	0.	1.819	0.
SM	0.	502.113	0.	926.793	30656338.	0.	502.113	0.
AV	0.	1.819	0.	3.358	111074.	0.	1.819	0.
MONTHLY SUMMARY (SEP)								
MN	0.	1.819	0.	0.000	102427.	0.	1.819	0.
MX	0.	1.819	0.	5.730	128805.	0.	1.819	0.
SM	0.	458.451	0.	676.874	28136698.	0.	458.451	0.
AV	0.	1.819	0.	2.686	111654.	0.	1.819	0.
MONTHLY SUMMARY (OCT)								
MN	-42477.	1.819	-114675.	0.000	107301.	-42477.	1.819	-114675.
MX	0.	1.819	0.	4.866	120454.	0.	1.819	0.
SM	-1574380.	436.620	-15137134.	595.152	27050626.	-1574380.	436.620	-15137134.
AV	-6560.	1.819	-63071.	2.480	112711.	-6560.	1.819	-63071.
MONTHLY SUMMARY (NOV)								
MN	-65205.	1.819	-114675.	0.000	112264.	-65205.	1.819	-114675.
MX	-15.	1.819	-114675.	0.000	133119.	-15.	1.819	-114675.
SM	-2061848.	436.620	-27522068.	0.000	27372160.	-2061848.	436.620	-27522068.
AV	-8591.	1.819	-114675.	0.000	114051.	-8591.	1.819	-114675.
MONTHLY SUMMARY (DEC)								
MN	-78847.	1.819	-114675.	0.000	112264.	-78847.	1.819	-114675.
MX	-4641.	1.819	-114675.	0.000	114949.	-4641.	1.819	-114675.
SM	-6910441.	458.451	-28898172.	0.000	28298120.	-6910441.	458.451	-28898172.
AV	-27422.	1.819	-114675.	0.000	112294.	-27422.	1.819	-114675.
YEARLY SUMMARY								
MN	-90551.	1.819	-114675.	0.000	100601.	-90551.	1.819	-114675.
MX	0.	1.819	0.	5.730	137124.	0.	1.819	0.
SM	-60479684.	5501.409	-187150064.	2777.775	341029216.	-60479684.	5501.409	-187150064.
AV	-20000.	1.819	-61888.	0.919	112774.	-20000.	1.819	-61888.

ENTECH ENGINEERING  
READING, PA 19603  
H-1 = HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC  
PT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 10: 3: 6 SDL RUN 1  
EMCS STUDY

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MMDDHH	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)
MONTHLY SUMMARY (JAN)								
MN	0.000	112264.	-148625.	3.527	-222322.	0.000	234782.	-144848.
MX	0.000	112264.	-16.	3.527	-222322.	0.000	472221.	-16.
SM	0.000	28290524.	-8565438.	888.803	-56025148.	0.000	61956480.	-8259521.
AV	0.000	112264.	-33990.	3.527	-222322.	0.000	245859.	-32776.
MONTHLY SUMMARY (FEB)								
MN	0.000	112264.	-161605.	3.527	-222322.	0.000	234782.	-155989.
MX	0.000	112264.	-14.	3.527	-222322.	0.000	319043.	-14.
SM	0.000	25596188.	-6474000.	804.155	-50689420.	0.000	55332020.	-6277172.
AV	0.000	112264.	-28395.	3.527	-222322.	0.000	242684.	-27531.
MONTHLY SUMMARY (MAR)								
MN	0.000	109484.	-139761.	3.527	-222322.	0.000	234782.	-134687.
MX	0.000	115623.	-7.	3.527	-222322.	0.000	374223.	-7.
SM	0.000	30980110.	-2767599.	973.451	-61360876.	0.000	68871288.	-2676990.
AV	0.000	112247.	-10028.	3.527	-222322.	0.000	249534.	-9699.
MONTHLY SUMMARY (APR)								
MN	0.000	105153.	-67468.	3.527	-222322.	0.000	233790.	-65995.
MX	0.000	119580.	0.	3.527	-222322.	0.000	365161.	0.
SM	0.000	28297574.	-261345.	888.803	-56025148.	0.000	66663088.	-266924.
AV	0.000	112292.	-1037.	3.527	-222322.	0.000	264536.	-1059.
MONTHLY SUMMARY (MAY)								
MN	0.000	103042.	0.	3.527	0.	0.000	215495.	0.
MX	0.000	124901.	0.	3.527	0.	13.389	357439.	0.
SM	0.000	28460458.	0.	888.803	0.	1267.856	62796612.	0.
AV	0.000	112938.	0.	3.527	0.	5.031	249193.	0.
MONTHLY SUMMARY (JUN)								
MN	0.000	100601.	0.	3.527	0.	0.000	213354.	0.
MX	2.792	132884.	0.	3.527	0.	18.907	334942.	0.
SM	61.953	30513324.	0.	931.127	0.	2804.919	63814452.	0.
AV	0.235	115581.	0.	3.527	0.	10.625	241721.	0.
MONTHLY SUMMARY (JUL)								
MN	0.000	102925.	0.	3.527	0.	0.000	219251.	0.
MX	4.490	137124.	0.	3.527	0.	19.105	329984.	0.
SM	517.004	27377080.	0.	846.479	0.	3225.994	56497608.	0.
AV	2.154	114071.	0.	3.527	0.	13.442	235407.	0.



	AHU-2	AHU-2	AHU-3	AHU-3	AHU-3	AHU-3	AHU-3	AHU-4
	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR
	----(47)	----(70)	----( 5)	----(49)	----(78)	----(47)	----(70)	----( 5)
MONTHLY SUMMARY (AUG)								
MN	0.000	102458.	0.	3.527	0.	0.000	219254.	0.
MX	5.650	136956.	0.	3.527	0.	18.797	329168.	0.
SM	926.793	30656338.	0.	973.451	0.	3505.275	64963236.	0.
AV	3.358	111074.	0.	3.527	0.	12.700	235374.	0.
MONTHLY SUMMARY (SEP)								
MN	0.000	102427.	0.	3.527	0.	0.000	215361.	0.
MX	5.730	128805.	0.	3.527	0.	17.432	349757.	0.
SM	676.874	28136698.	0.	888.803	0.	2173.011	61972980.	0.
AV	2.686	111654.	0.	3.527	0.	8.623	245925.	0.
MONTHLY SUMMARY (OCT)								
MN	0.000	107301.	-82529.	3.527	-222322.	0.000	228423.	-78745.
MX	4.866	120454.	0.	3.527	0.	12.477	324055.	0.
SM	595.152	27050626.	-2862024.	846.479	-29346506.	1441.933	58819040.	-26743319.
AV	2.480	112711.	-11925.	3.527	-122277.	6.008	245079.	-11143.
MONTHLY SUMMARY (NOV)								
MN	0.000	112264.	-124775.	3.527	-222322.	0.000	234782.	-121218.
MX	0.000	133119.	0.	3.527	-222322.	0.000	331492.	0.
SM	0.000	27372160.	-1709644.	846.479	-53357284.	0.000	61868776.	-1589601.
AV	0.000	114051.	-7124.	3.527	-222322.	0.000	257787.	-6623.
MONTHLY SUMMARY (DEC)								
MN	0.000	112264.	-136976.	3.527	-222322.	0.000	234782.	-132934.
MX	0.000	114949.	-14.	3.527	-222322.	0.000	323013.	-14.
SM	0.000	28298120.	-6832626.	888.803	-56025148.	0.000	61688268.	-6589190.
AV	0.000	112294.	-27114.	3.527	-222322.	0.000	244795.	-26148.
YEARLY SUMMARY								
MN	0.000	100601.	-161605.	3.527	-222322.	0.000	213354.	-155989.
MX	5.730	137124.	0.	3.527	0.	19.105	472221.	0.
SM	2777.775	341029216.	-29472674.	10665.638	-362829536.	14418.987	745243840.	-28333724.
AV	0.919	112774.	-9746.	3.527	-119983.	4.768	246443.	-9370.

MMDDHH	AHU-4	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-5
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW
	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)
MONTHLY SUMMARY (JAN)								
MN	3.427	-216033.	0.000	228191.	-272975.	7.066	-445384.	0.000
MX	3.427	-216033.	0.000	457880.	-14.	7.066	-445384.	0.000
SM	863.662	-54440408.	0.000	60189968.	-13383163.	1780.563	-112236760.	0.000
AV	3.427	-216033.	0.000	238849.	-53108.	7.066	-445384.	0.000
MONTHLY SUMMARY (FEB)								
MN	3.427	-216033.	0.000	228191.	-298075.	7.066	-445384.	0.000
MX	3.427	-216033.	0.000	309586.	-13.	7.066	-445384.	0.000
SM	781.409	-49255608.	0.000	53760560.	-10164425.	1610.985	-101547544.	0.000
AV	3.427	-216033.	0.000	235792.	-44581.	7.066	-445384.	0.000
MONTHLY SUMMARY (MAR)								
MN	3.427	-216033.	0.000	228191.	-255651.	7.066	-445384.	0.000
MX	3.427	-216033.	0.000	363062.	-5.	7.066	-445384.	0.000
SM	945.916	-59625208.	0.000	66914280.	-3800789.	1950.140	-122925976.	0.000
AV	3.427	-216033.	0.000	242443.	-13771.	7.066	-445384.	0.000
MONTHLY SUMMARY (APR)								
MN	3.427	-216033.	0.000	227142.	-112012.	7.066	-445384.	0.000
MX	3.427	-216033.	0.000	354195.	0.	7.066	-445384.	0.000
SM	863.662	-54440408.	0.000	64730596.	-262378.	1780.563	-112236760.	0.000
AV	3.427	-216033.	0.000	256867.	-1041.	7.066	-445384.	0.000
MONTHLY SUMMARY (MAY)								
MN	3.427	0.	0.000	209446.	0.	7.066	0.	0.000
MX	3.427	0.	12.793	346894.	0.	7.066	0.	26.795
SM	863.662	0.	1228.734	60995752.	0.	1780.563	0.	2709.773
AV	3.427	0.	4.876	242047.	0.	7.066	0.	10.753
MONTHLY SUMMARY (JUN)								
MN	3.427	0.	0.000	207736.	0.	7.066	0.	0.000
MX	3.427	0.	18.326	308316.	0.	7.066	0.	37.740
SM	904.789	0.	2716.903	61964784.	0.	1865.352	0.	5697.487
AV	3.427	0.	10.291	234715.	0.	7.066	0.	21.581
MONTHLY SUMMARY (JUL)								
MN	3.427	0.	0.000	213063.	0.	7.066	0.	0.000
MX	3.427	0.	18.547	320339.	0.	7.066	0.	38.054
SM	822.535	0.	3103.662	54960016.	0.	1695.774	0.	6396.543
AV	3.427	0.	12.932	229000.	0.	7.066	0.	26.652

	AHU-4	AHU-4	AHU-4	AHU-4	AHU-5	AHU-5	AHU-5	AHU-5
	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW
	---- (49)	---- (78)	---- (47)	---- (70)	---- ( 5)	---- (49)	---- (78)	---- (47)
MONTHLY SUMMARY (AUG)								
MN	3.427	0.	0.000	213129.	0.	7.066	0.	0.000
MX	3.427	0.	18.287	319551.	0.	7.066	0.	37.553
SM	945.916	0.	3428.831	63124724.	0.	1950.140	0.	7059.287
AV	3.427	0.	12.423	228713.	0.	7.066	0.	25.577
MONTHLY SUMMARY (SEP)								
MN	3.427	0.	0.000	209413.	0.	7.066	0.	0.000
MX	3.427	0.	17.018	339507.	0.	7.066	0.	34.906
SM	863.662	0.	2126.070	60250520.	0.	1780.563	0.	4475.320
AV	3.427	0.	8.437	239089.	0.	7.066	0.	17.759
MONTHLY SUMMARY (OCT)								
MN	3.427	-216033.	0.000	221973.	-153414.	7.066	-445384.	0.000
MX	3.427	0.	12.290	314653.	0.	7.066	0.	25.557
SM	822.535	-28516408.	1422.130	57174192.	-4757826.	1695.774	-58790684.	3012.478
AV	3.427	-118818.	5.926	238226.	-19824.	7.066	-244961.	12.552
MONTHLY SUMMARY (NOV)								
MN	3.427	-216033.	0.000	228191.	-215596.	7.066	-445384.	0.000
MX	3.427	-216033.	0.000	321837.	0.	7.066	-445384.	0.000
SM	822.535	-51848008.	0.000	60127384.	-2082057.	1695.774	-106892152.	0.000
AV	3.427	-216033.	0.000	250531.	-8675.	7.066	-445384.	0.000
MONTHLY SUMMARY (DEC)								
MN	3.427	-216033.	0.000	228191.	-249980.	7.066	-445384.	0.000
MX	3.427	-216033.	0.000	313469.	-13.	7.066	-445384.	0.000
SM	863.662	-54440408.	0.000	59932484.	-10302462.	1780.563	-112236760.	0.000
AV	3.427	-216033.	0.000	237827.	-40883.	7.066	-445384.	0.000
YEARLY SUMMARY								
MN	3.427	-216033.	0.000	207736.	-298075.	7.066	-445384.	0.000
MX	3.427	0.	18.547	457880.	0.	7.066	0.	38.054
SM	10363.945	-352566464.	14026.331	724125184.	-44753096.	21366.754	-726866624.	29350.891
AV	3.427	-116589.	4.638	239459.	-14799.	7.066	-240366.	9.706

ENTECH ENGINEERING READING, PA 19603 H-1 = HOURLY-REPORT			EZDOE - ELITE SOFTWARE DEVELOPMENT INC PT. GEORGE G. MRADE			DOE-2.1D 6/ 7/1996 EMCS STUDY		10: 3: 6 SDL RUN 1	
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MMDDHH	AHU-5	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-7	AHU-7	
	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	
	----(70)	----( 5)	----(49)	----(78)	----(47)	----(70)	----( 5)	----(49)	
MONTHLY SUMMARY (JAN)									
MN	469216.	-313944.	8.087	-509750.	0.000	532162.	-460734.	9.184	
MX	942566.	-15.	8.087	-509750.	0.000	1067654.	-29291.	9.184	
SM	123923376.	-18100394.	2037.887	-128457008.	0.000	140421984.	-47300000.	2314.437	
AV	491759.	-71827.	8.087	-509750.	0.000	557230.	-187698.	9.184	
MONTHLY SUMMARY (FEB)									
MN	469216.	-327433.	8.087	-509750.	0.000	532162.	-459293.	9.184	
MX	637039.	-13.	8.087	-509750.	0.000	722336.	-17.	9.184	
SM	110693800.	-13067940.	1843.803	-116223008.	0.000	125471680.	-36352504.	2094.015	
AV	485499.	-57316.	8.087	-509750.	0.000	550314.	-159441.	9.184	
MONTHLY SUMMARY (MAR)									
MN	469216.	-285441.	8.087	-509750.	0.000	532162.	-394284.	9.184	
MX	751570.	-4.	8.087	-509750.	0.000	852080.	-11.	9.184	
SM	138121424.	-4957075.	2231.972	-140691024.	0.000	156470976.	-24779292.	2534.859	
AV	500440.	-17960.	8.087	-509750.	0.000	566924.	-89780.	9.184	
MONTHLY SUMMARY (APR)									
MN	469216.	-124669.	8.087	-509750.	0.000	532162.	-312999.	9.184	
MX	729638.	0.	8.087	-509750.	0.000	827019.	-2.	9.184	
SM	134384288.	-418442.	2037.887	-128457008.	0.000	152324320.	-8312274.	2314.437	
AV	533271.	-1660.	8.087	-509750.	0.000	604462.	-32985.	9.184	
MONTHLY SUMMARY (MAY)									
MN	430671.	0.	8.087	0.	0.000	488446.	0.	9.184	
MX	713385.	0.	8.087	0.	30.012	809214.	0.	9.184	
SM	124863320.	0.	2037.887	0.	2978.649	141940560.	0.	2314.437	
AV	495489.	0.	8.087	0.	11.820	563256.	0.	9.184	
MONTHLY SUMMARY (JUN)									
MN	427603.	0.	8.087	0.	0.000	485151.	0.	9.184	
MX	629271.	0.	8.087	0.	42.490	718479.	0.	9.184	
SM	127157032.	0.	2134.929	0.	6441.441	144037008.	0.	2424.648	
AV	481655.	0.	8.087	0.	24.399	545595.	0.	9.184	
MONTHLY SUMMARY (JUL)									
MN	437695.	0.	8.087	0.	0.000	495218.	0.	9.184	
MX	658691.	0.	8.087	0.	43.272	746988.	0.	9.184	
SM	112947168.	0.	1940.845	0.	7226.698	127748760.	0.	2204.226	
AV	470613.	0.	8.087	0.	30.111	532287.	0.	9.184	

	AHU-5	AHU-6	AHU-6	AHU-6	AHU-6	AHU-6	AHU-7	AHU-7
	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR	TOT HTG COIL PWR BTU/HR	SUPPLY ELECTRIC KW
	----(70)	----( 5)	----(49)	----(78)	----(47)	----(70)	----( 5)	----(49)
MONTHLY SUMMARY (AUG)								
MN	437951.	0.	8.087	0.	0.000	495290.	0.	9.184
MX	657104.	0.	8.087	0.	42.314	720032.	0.	9.184
SM	129665912.	0.	2231.972	0.	7958.378	146611568.	0.	2534.859
AV	469804.	0.	8.087	0.	28.835	531201.	0.	9.184
MONTHLY SUMMARY (SEP)								
MN	430387.	0.	8.087	0.	0.000	487567.	0.	9.184
MX	698070.	0.	8.087	0.	39.418	791452.	0.	9.184
SM	123528632.	0.	2037.887	0.	4859.461	140218704.	0.	2314.437
AV	490193.	0.	8.087	0.	19.284	556423.	0.	9.184
MONTHLY SUMMARY (OCT)								
MN	456339.	-184971.	8.087	-509750.	0.000	516699.	-308563.	9.184
MX	621612.	0.	8.087	0.	28.100	733406.	0.	9.184
SM	117088336.	-6267788.	1940.845	-67287008.	3294.399	133167840.	-14385889.	2204.226
AV	487868.	-26116.	8.087	-280363.	13.727	554866.	-59941.	9.184
MONTHLY SUMMARY (NOV)								
MN	469216.	-260594.	8.087	-509750.	0.000	532162.	-403274.	9.184
MX	665136.	0.	8.087	-509750.	0.000	751491.	0.	9.184
SM	124223072.	-3606989.	1940.845	-122340008.	0.000	140498288.	-20603312.	2204.226
AV	517596.	-15029.	8.087	-509750.	0.000	585410.	-85847.	9.184
MONTHLY SUMMARY (DEC)								
MN	469216.	-296485.	8.087	-509750.	0.000	532162.	-435288.	9.184
MX	646121.	-13.	8.087	-509750.	0.000	731757.	-7024.	9.184
SM	123450680.	-14661766.	2037.887	-128457008.	0.000	139855616.	-41806972.	2314.437
AV	489884.	-58182.	8.087	-509750.	0.000	554983.	-165901.	9.184
YEARLY SUMMARY								
MN	427603.	-327433.	8.087	-509750.	0.000	485151.	-460734.	9.184
MX	942566.	0.	8.087	0.	43.272	1067654.	0.	9.184
SM	1490047104.	-61080392.	24454.646	-831912064.	32759.027	1688767360.	-193540240.	27773.246
AV	492740.	-20199.	8.087	-275103.	10.833	558455.	-64001.	9.184

ENTECH ENGINEERING  
READING, PA 19603  
H-1 = HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 10: 3: 6 SDL RUN 1  
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MMDDHH	AHU-7	AHU-7	AHU-7
	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR
	----(78)	----(47)	----(70)
MONTHLY SUMMARY (JAN)			
MN	-578925.	0.000	588302.
MX	-578925.	0.000	1237348.
SM	-145889152.	0.000	156574624.
AV	-578925.	0.000	621328.
MONTHLY SUMMARY (FEB)			
MN	-578925.	0.000	588302.
MX	-578925.	0.000	824707.
SM	-131994944.	0.000	139462736.
AV	-578925.	0.000	611679.
MONTHLY SUMMARY (MAR)			
MN	-578925.	0.000	584304.
MX	-578925.	0.000	964163.
SM	-159783360.	0.000	172758736.
AV	-578925.	0.000	625937.
MONTHLY SUMMARY (APR)			
MN	-578925.	0.000	582440.
MX	-578925.	0.000	952212.
SM	-145889152.	0.000	164964528.
AV	-578925.	0.000	654621.
MONTHLY SUMMARY (MAY)			
MN	0.	0.000	539975.
MX	0.	29.368	930634.
SM	0.	2326.293	158789184.
AV	0.	9.231	630116.
MONTHLY SUMMARY (JUN)			
MN	0.	0.000	536675.
MX	0.	45.409	813506.
SM	0.	5912.268	159849232.
AV	0.	22.395	605490.
MONTHLY SUMMARY (JUL)			
MN	0.	0.000	543558.
MX	0.	46.067	846479.
SM	0.	7085.115	141342864.
AV	0.	29.521	588929.

	AHU-7	AHU-7	AHU-7
	HEATING CAPACITY BTU/HR	COOLING ELECTRIC KW	COOLING CAPACITY BTU/HR
	----(78)	----(47)	----(70)
MONTHLY SUMMARY (AUG)			
MN	0.	0.000	544186.
MX	0.	45.296	816252.
SM	0.	7643.803	162200000.
AV	0.	27.695	587681.
MONTHLY SUMMARY (SEP)			
MN	0.	0.000	538175.
MX	0.	42.876	902130.
SM	0.	4482.968	156080048.
AV	0.	17.790	619365.
MONTHLY SUMMARY (OCT)			
MN	-578925.	0.000	571293.
MX	0.	25.804	831529.
SM	-76418112.	2849.745	147876320.
AV	-318409.	11.874	616151.
MONTHLY SUMMARY (NOV)			
MN	-578925.	0.000	588302.
MX	-578925.	0.000	850172.
SM	-138942048.	0.000	154956208.
AV	-578925.	0.000	645651.
MONTHLY SUMMARY (DEC)			
MN	-578925.	0.000	588302.
MX	-578925.	0.000	835016.
SM	-145889152.	0.000	155655952.
AV	-578925.	0.000	617682.
YEARLY SUMMARY			
MN	-578925.	0.000	536675.
MX	0.	46.067	1237348.
SM	-944805888.	30300.191	1870510336.
AV	-312436.	10.020	618555.

EXDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

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EMCS STUDY

WEATHER FILE- BALTIMORE, MD

HW-BOILER	2.500	2	2
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MONTH	S I T E E N E R G Y												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	
	TOTAL HEAT LOAD	TOTAL COOLING LOAD	TOTAL ELECTR LOAD	RCVRED ENERGY	WASTED RCVRABL ENERGY	FUEL INPUT COOLING	ELEC INPUT COOLING	FUEL INPUT HEATING	ELEC INPUT HEATING	FUEL INPUT ELECT	TOTAL FUEL INPUT	TOTAL SITE ENERGY	TOTAL SOURCE ENERGY
JAN	224.6	0.0	267.8 78.4E	0.0	0.0	0.0	0.0 0.0E	349.0	28.9 8.5E	0.0	349.0	616.7	1153.0
FEB	192.2	0.0	240.6 70.5E	0.0	0.0	0.0	0.0 0.0E	296.7	25.0 7.3E	0.0	296.7	537.3	1019.1
MAR	130.6	0.0	274.4 80.4E	0.0	0.0	0.0	0.0 0.0E	207.8	23.1 6.8E	0.0	207.8	482.2	1031.9
APR	83.0	0.0	251.5 73.6E	0.0	0.0	0.0	0.0 0.0E	134.9	19.4 5.7E	0.0	134.9	386.4	890.1
MAY	0.0	0.0	301.7 88.4E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	301.7	906.1
JUN	0.0	0.0	346.7 101.5E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	346.7	1041.2
JUL	0.0	0.0	357.0 104.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	357.0	1072.2
AUG	0.0	0.0	381.0 111.6E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	381.0	1144.1
SEP	0.0	0.0	324.2 95.0E	0.0	0.0	0.0	0.0 0.0E	0.0	0.0 0.0E	0.0	0.0	324.2	973.7
OCT	58.4	0.0	300.9 88.1E	0.0	0.0	0.0	0.0 0.0E	94.7	11.5 3.4E	0.0	94.7	395.6	998.3
NOV	86.1	0.0	242.9 71.1E	0.0	0.0	0.0	0.0 0.0E	138.4	19.4 5.7E	0.0	138.4	381.3	867.8
DEC	178.4	0.0	262.9 77.0E	0.0	0.0	0.0	0.0 0.0E	280.1	26.1 7.7E	0.0	280.1	543.0	1069.6
-----	953.3	0.0	3551.6 1040.2E	0.0	0.0	0.0	0.0 0.0E	1501.6	153.4 44.9E	0.0	1501.6	5053.2	12167.1

NOTE-- ALL ENTRIES ARE IN MBTU EXCEPT  
 ENTRIES FOLLOWED BY E ARE IN MWH (THOUSANDS OF KWH)

MO	UTILITY-	ELECTRICITY	NATURAL-GAS
	TOTAL (MBTU)	267.762	348.961
JAN	PEAK (KBTU)	1007.105	2160.860
	DY/HR	31/15	16/7
	TOTAL (MBTU)	240.563	296.711
FEB	PEAK (KBTU)	1007.105	2213.450
	DY/HR	22/9	13/7
	TOTAL (MBTU)	274.441	207.787
MAR	PEAK (KBTU)	1007.105	1950.657
	DY/HR	16/8	7/7
	TOTAL (MBTU)	251.455	134.935
APR	PEAK (KBTU)	990.234	1377.561
	DY/HR	11/8	10/7
	TOTAL (MBTU)	301.729	0.000
MAY	PEAK (KBTU)	1310.997	0.000
	DY/HR	20/16	31/1
	TOTAL (MBTU)	346.728	0.000
JUN	PEAK (KBTU)	1509.353	0.000
	DY/HR	10/16	30/1
	TOTAL (MBTU)	357.034	0.000
JUL	PEAK (KBTU)	1519.049	0.000
	DY/HR	25/16	31/1
	TOTAL (MBTU)	380.987	0.000
AUG	PEAK (KBTU)	1527.671	0.000
	DY/HR	18/16	31/1
	TOTAL (MBTU)	324.242	0.000
SEP	PEAK (KBTU)	1492.039	0.000
	DY/HR	1/16	30/1
	TOTAL (MBTU)	300.897	94.716
OCT	PEAK (KBTU)	1318.867	1380.046
	DY/HR	18/16	24/7
	TOTAL (MBTU)	242.901	138.369
NOV	PEAK (KBTU)	1007.105	1775.396
	DY/HR	28/8	25/7
	TOTAL (MBTU)	262.887	280.109
DEC	PEAK (KBTU)	1007.105	1911.371
	DY/HR	27/9	12/7
	ONE YEAR	3551.624	1501.588
	USE/PEAK	1527.671	2213.450

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

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WEATHER FILE- BALTIMORE, MD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	953.3	100.0
LOAD SATISFIED	953.3	100.0
TOTAL LOAD ON PLANT	953.3	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	3551.6	100.0
LOAD SATISFIED	3551.6	100.0
TOTAL LOAD ON PLANT	3551.7	

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC  
FT. GEORGE G. MEADE

DOE-2.1D 6/ 7/1996 10: 3: 6 PDL RUN 1  
EMCS STUDY

WEATHER FILE- BALTIMORE, MD

(CONTINUED)

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	953.3	953.3	0.000	0.000	0
ELECTRICAL LOADS	3551.7	3551.6	0.000	0.000	0

ENTECH ENGINEERING  
READING, PA 19603  
REPORT- PS-H EQUIPMENT USE STATISTICS

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EMCS STUDY  
WEATHER FILE- BALTIMORE, MD

EQUIPMENT	AVG	MAX	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
	OPER RATIO	LOAD (MBTU)	DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.081	1.657	2	13	7	2.500	4728					

ENTTECH ENGINEERING      EZDOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/ 7/1996    10: 3: 6    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE    EMCS STUDY  
 REPORT- PS-I    EQUIPMENT LIFE CYCLE COSTS      WEATHER FILE- BALTIMORE, MD

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EQUIPMENT TOTALS

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HW-BOILER	140.6		
NOMINAL SIZE (MBTU)		2.500	
NUMBER INSTALLED		2	
FIRST COST (K\$)	131.1	131.1	
ANNUAL COST (K\$)	4.2	4.2	
CYCLICAL COST (K\$)	5.4	5.4	
-----TOTAL----- (K\$)		140.6	
<hr/>			
EQUIPMENT TOTAL	140.6		

ENTECH ENGINEERING      E2DOE - ELITE SOFTWARE DEVELOPMENT INC      DOE-2.1D    6/ 7/1996    10: 3: 6    PDL RUN 1  
 READING, PA    19603    FT. GEORGE G. MEADE      EMCS STUDY  
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE      WEATHER FILE- BALTIMORE, MD

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ENERGY TYPE IN SITE MBTU -	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
SPACE HEAT	73.05	1501.58
SPACE COOL	520.82	0.00
HVAC AUX	583.62	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	1721.74	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	652.34	0.00
	-----	-----
TOTAL	3551.56	1501.58

TOTAL SITE ENERGY	5053.21 MBTU	58.3 KBTU/SQFT-YR GROSS-AREA	58.3 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	12167.13 MBTU	140.5 KBTU/SQFT-YR GROSS-AREA	140.5 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 43.3  
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED  
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

HOURLY DATA FILE 2 FROM PROG 3

MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR
	---- ( 1 )	---- ( 3 )	---- ( 4 )
MONTHLY SUMMARY (JAN)			
MN	34703.	3054.	56709.
MX	1609654.	55000.	2160860.
SM	224637792.	16283064.	348961568.
AV	301933.	21886.	469034.
MONTHLY SUMMARY (FEB)			
MN	34703.	3054.	56709.
MX	1656762.	55000.	2213450.
SM	192197264.	11581517.	296712192.
AV	286008.	20211.	441536.
MONTHLY SUMMARY (MAR)			
MN	34703.	3054.	56709.
MX	1422910.	55000.	1950657.
SM	130571600.	10414490.	207787408.
AV	175499.	13998.	279284.
MONTHLY SUMMARY (APR)			
MN	34703.	3054.	56709.
MX	925758.	55000.	1377561.
SM	83030616.	7158772.	134934752.
AV	115320.	9943.	187409.
MONTHLY SUMMARY (MAY)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (JUN)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (JUL)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.



ENTECH ENGINEERING  
READING, PA 19603  
HRLY-1 = HOURLY-REPORT

EMDOE - ELITE SOFTWARE DEVELOPMENT INC  
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DOE-2.1D 6/ 7/1996 10: 3: 6 PDL RUN 1  
EMCS STUDY

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	HW-BOILE R LOAD BTU/HR ---- ( 1)	HW-BOILE R ELECTRIC USE BTU/HR ---- ( 3)	HW-BOILE R FUEL USE BTU/HR ---- ( 4)
MONTHLY SUMMARY (AUG)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (SEP)			
MN	0.	0.	0.
MX	0.	0.	0.
SM	0.	0.	0.
AV	0.	0.	0.
MONTHLY SUMMARY (OCT)			
MN	0.	0.	0.
MX	927877.	55000.	1380046.
SM	58383820.	5001064.	94715376.
AV	78473.	6722.	127306.
MONTHLY SUMMARY (NOV)			
MN	34703.	3054.	56709.
MX	1269055.	55000.	1775396.
SM	86076264.	7125462.	138369072.
AV	119550.	9896.	192179.
MONTHLY SUMMARY (DEC)			
MN	34703.	3054.	56709.
MX	1388278.	55000.	1911371.
SM	178397280.	13486727.	280109632.
AV	239781.	18127.	376491.
YEARLY SUMMARY			
MN	0.	0.	0.
MX	1656762.	55000.	2213450.
SM	953294592.	73051096.	1501590016.
AV	108824.	8339.	171414.